CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 10, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
May				
*10	Dam	Billings, Mont.	P. & S.	4- 5
*14	Caisson lock-gates	Boston, Mass.	S.	4-19
*14	Dredging	Detroit, Mich.	S.	4-19
*15	Bridges	Belle Fourche, S. Dak.	P. & S.	4-19
*15	Bridge	Philadelphia, Pa.	P. & S.	4-26
*15	Bridges	Niagara Falls, N. Y.	P. S. & B. S.	4-26
*18	Stand-pipe	Chatham, Va.	P. & S.	4-26
*19	Superstructure and flooring	Batavia, N. Y.	P. S. & B. S.	5-10
*21	Rebuilding road	Cape May, N. J.	P. & S.	5- 3
*24	Canal	Billings, Mont.	P. & S.	4-12
25	Bridge	Wilkes-Barre, Pa.	P. S. & B. S.	4-26
26	Centrifugal pumps	Portsmouth, N. H.	S.	5-10
*29	Main canal	Belle Fourche, S. Dak.	S.	4-26
June				
*1	Heating plant	Fishers Island	P. S. & B. S.	5- 3
9	Concrete sewer	Altoona, Pa.	S.	5- 3
*27	Storage works	Portland, Ore.	P. S. & B. S.	4-26
Sept.				
15	Hotel bldg	Manila, P. I.	S.	3-29

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	On file.	See issue.

LIGHT, HEAT AND POWER PLANTS.

May 15. Light plant, Belleville, Kan. ..... May 3
May 23. Steam piping, New York, N. Y. ..... May 10
May 29. Electric light plant, Clinton, S. C. ..... May 10
May 28. Elec. power plant, Garden City, Kan. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to May 10.
June 1. Heating plant, Fishers Island ..... May 3
Advertised, Eng. News, May 3.
June 1. Light plant, Huntington, Utah ..... May 3
June 1. Electrical supplies, Fort Meade, S. Dak. ..... May 3
Advertised, Eng. News, May 3 to 24.
June 1. Electric system, Fort Wood, N. Y. ..... May 10
June 1. Electrical work, Omaha, Neb. ..... May 10
June 2. Generators, etc., Albany, N. Y. ..... May 10
Advertised, Eng. News, May 10 to 31.
June 13. Transmission poles, Chicago, Ill. ..... Apr. 26
Advertised, Eng. News, Apr. 26.
July 5. Water power for sale, Kenora, Ont. ..... Mar. 15
Advertised, Eng. News, Mar. 15.

BRIDGES.

May 11. Steel bridge, Troy, N. Y. ..... May 3
May 11. Bridge, Pittsburg, Pa. ..... May 10
May 12. Concrete bridge, Fresno, Cal. ..... Apr. 26
May 14. Bridge cables for sale, Pawnee, Okla. ..... Apr. 19
Advertised, Eng. News, Apr. 19 and 26.
May 15. Five bridges, Belle Fourche, S. Dak. ..... Apr. 19
Advertised, Eng. News, Apr. 19 to May 10.
May 15. Bridges, Niagara Falls, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 15. Bridge, Philadelphia, Pa. ..... Apr. 26
Advertised, Eng. News, Apr. 26 to May 10.
May 15. Bridge, Napa, Cal. ..... May 3
May 15. Bridge, Miniota, Man. ..... May 10
May 15. Steel bridge, Oakville, Tex. ..... May 10
May 16. Bridge, Houston, Tex. ..... May 10
May 16. Steel bridge, Corpus Christi, Tex. ..... May 10
May 16. Steel bridge, De Smet, S. Dak. ..... Apr. 26
May 17. Bridge, etc., Jefferson, O. ..... May 3
May 17. Bridge, Springfield, O. ..... May 3
May 19. Steel bridge, Souris, Man. ..... Apr. 19
May 19. Highway bridge, San Juan, P. R. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to 26.
May 22. Steel bridge, Alexandria, La. ..... Apr. 26
May 22. Iron bridge, Camden, Tenn. ..... May 10
May 25. Bridge, Wilkes-Barre, Pa. ..... Apr. 26
May 26. Two spans, Denver, Colo. ..... May 10
May 26. Superstructure, Maybell, Colo. ..... May 10
June 30. Bridges, St. John, N. B. ..... Apr. 12
No date. Five steel bridges, Batesville, Ark. ..... May 10
No date. Two bridges, Lees Summit, Ark. ..... May 10

BUILDINGS.

May 10. Court-house and jail, Carmel, N. Y. ..... May 3
Advertised, Eng. News, May 3 and 10.
May 10. Building, New York, N. Y. ..... May 3
May 11. Post-office and court-house, Los Angeles, Cal. ..... Apr. 12
May 14. Court bldg, etc., White Plains, N. Y. ..... Apr. 19
Advertised, Eng. News, Apr. 19 to May 10.
May 14. Court-house, Newton, Kan. ..... Apr. 26
May 14. School, Rockford, Ill. ..... May 3
May 15. Buildings, Spring City, Pa. ..... Apr. 26
Advertised, Eng. News, May 3.
May 15. Jail, Folkestone, Ga. ..... Apr. 19
May 15. Fireproof floors, Washington, D. C. ..... May 10
May 16. Court-house and jail, Sanderson, Tex. ..... Apr. 26
May 17. Building, Washington, D. C. ..... May 3
Advertised, Eng. News, May 3 and 10.
May 17. Dormitory, New York, N. Y. ..... May 10
May 18. Church, Auburn, N. Y. ..... Apr. 26
May 21. Jail, St. Peter, Minn. ..... Apr. 26
May 21. Army buildings, Laredo, Tex. ..... Apr. 26
May 21. City hall, Pensacola, Fla. ..... May 3
May 21. School, Cleveland, O. ..... May 3
May 21. Buildings, New York, N. Y. ..... May 10
May 22. Vacuum cleaner, San Francisco, Cal. ..... Apr. 26
June 7. Court-house, Peru, Ind. ..... Apr. 26
Sept. 15. Hotel, Manila, P. I. ..... Mar. 29
No date. Coliseum, Louisville, Ky. ..... May 10

WATER SUPPLY AND IRRIGATION.

May 10. Water-works, Winfield, Kan. ..... May 3
May 10. Iron pipe, St. Stephen, N. B. ..... May 3
May 14. Improvements, Fostoria, O. ..... May 3
Advertised, Eng. News, May 3.
May 15. Water pipe, New Orleans, La. ..... Apr. 5
May 15. Filtration plant, Manchester, Va. ..... May 10
May 16. Steam pumping engines, New Bethlehem, Pa. ..... May 10
Advertised, Eng. News, May 10.
May 17. Irrigation plant, Truxton, Ariz. ..... May 3
Advertised, Eng. News, Apr. 26.
May 18. Stand-pipe, Chatham, Va. ..... Apr. 26
May 21. Infiltration gallery, Columbus, Ind. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 21. Water system, Dickinson, N. Dak. ..... May 10
May 22. Improvements, Fort Peck, Mont. ..... May 3
May 23. Water tunnel, Chicago, Ill. ..... May 3
Advertised, Eng. News, May 3.
May 26. Pumping engine, Rockford, Ill. ..... May 3
May 26. Centrifugal pumps, Portsmouth, N. H. ..... May 10
May 29. Water system, Clinton, S. C. ..... May 10
June 1. Water-works, Aurora, Minn. ..... May 10
June 1. Water tower, Grand Rapids, Mich. ..... May 10
Advertised, Eng. News, May 10 and 17.
June 2. Engines, etc., Albany, N. Y. ..... May 10
Advertised, Eng. News, May 10 to 31.
June 4. Air compressor, Galesburg, Ill. ..... May 10
Advertised, Eng. News, May 10 to 31.
June 4. Deep well, Galesburg, Ill. ..... May 10
Advertised, Eng. News, May 10 to 31.
June 4. Distribution system, Philadelphia, Pa. ..... May 10
Advertised, Eng. News, May 10, 17 and 31.
June 5. Reservoir embankment, La Junta, Colo. ..... May 10
Advertised, Eng. News, May 10 to 24.
June 7. Water mains, North Chicago, Ill. ..... May 3

SEWERAGE.

May 10. Drain pipe, New York, N. Y. ..... May 3
May 11. Sewer, St. Louis, Mo. ..... May 3
May 11. Sewers, Elkhart, Ind. ..... Apr. 26
May 12. Sewers, Pipestone, Minn. ..... Apr. 26
May 12. Sewers, Pittsburg, Pa. ..... Apr. 12
May 12. Sewer outlet, Fort McIntosh, Tex. ..... May 3
May 14. Sewer, Oshkosh, Wis. ..... Apr. 26
May 15. Sewer construction, etc., Ravenna, O. ..... Apr. 26
May 15. Sewer construction, Sheboygan, Wis. ..... May 3
May 15. Sewer, Rockford, Ill. ..... May 3
Advertised, Eng. News, May 3.
May 15. Sewers, Bound Brook, N. J. ..... May 10
May 16. Sewer, Norfolk, Neb. ..... May 10
May 16. Sewers, Amsterdam, N. Y. ..... May 10
May 16. Sewer, Waterford, N. Y. ..... May 3
Advertised, Eng. News, May 3 and 10.
May 20. Sewers, Newport, Ky. ..... May 10
May 21. Sewers, Scranton, Pa. ..... May 10
May 21. Sewer additions, Montgomery, Ala. ..... May 3
May 22. Sewers, Buffalo, N. Y. ..... May 10
May 23. Pipe line, New York, N. Y. ..... May 10
June 1. Drains and sewers, Pensacola, Fla. ..... Apr. 26
Advertised, Eng. News, May 3 to 24.
June 5. Concrete work, Brownwood, Tex. ..... May 10
June 15. Sewer, Escanaba, Mich. ..... May 5
June 15. Sewer construction, Escanaba, Mich. ..... May 3
June 26. Sewer, Vacaville, Cal. ..... Apr. 5
No date. Sewer construction, Evansville, Ind. ..... May 3
No date. Sewer, Lincoln, Ill. ..... May 10
No date. Sewer system, Batavia, Ill. ..... May 10
Advertised, Eng. News, May 10.
No date. Sewer, Peru, Ind. ..... May 10

TO ENGINEERS AND CONTRACTORS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS

Wainwright A. S. Randall, Editor,
The Construction News Department.

STREETS AND ROADS.

May 10. Limestone screenings, New York, N. Y. ..... May 3
May 11. Grading, paving, etc., Suffolk, Va. ..... Apr. 19
Advertised, Eng. News, Apr. 19 and 26.
May 12. Paving, Westerville, O. ..... Apr. 26
May 14. Gravel road, Merrimack, N. H. ..... May 3
May 14. Crossings and walks, Exira, Ia. ..... May 3
May 14. Paving, Crawfordsville, Ind. ..... May 10
May 15. Grading, Rockville, Md. ..... May 10
May 15. Road work materials, New York, N. Y. ..... May 10
May 15. Street improvements, Shelbyville, Ind. ..... May 3
May 15. Grading, etc., New York, N. Y. ..... May 3
May 19. Street paving, cement, Mansfield, O. ..... May 3
Advertised, Eng. News, May 10.
May 19. Macadam road, Clinton, Tenn. ..... May 3
May 19. Macadamizing, Cincinnati, O. ..... May 3
May 21. Grading, St. Paul, Minn. ..... May 10
May 24. Road construction, Dandridge, Tenn. ..... May 3
May 25. Paving and curbing, Washington, D. C. ..... May 3
Advertised, Eng. News, May 3.
May 28. Roads and walks, Fort Wood, N. Y. ..... May 3
May 28. Grading, etc., Salt Lake City, Utah. ..... May 10
Advertised, Eng. News, May 10 and 17.
May 31. Grading, North Chicago, Ill. ..... May 3
Advertised, Eng. News, May 3 and 10.
June 1. Brick paving, Wheeling, W. Va. ..... May 10
June 1. Brick paving, Fairmont, W. Va. ..... May 10
June 5. Sidewalks, St. Paul, Minn. ..... May 10
No date. Grading, etc., Greenfield, Ind. ..... May 3

MISCELLANEOUS CONTRACTS

May 10. Drainage, Forest City, Ia. ..... May 3
May 10. Dikes, New York, N. Y. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to May 3.
May 10. Dam, Billings, Mont. ..... Apr. 5
Advertised, Eng. News, Apr. 5 to 26.
May 10. Jetties, etc., Collinwood, O. ..... May 3
May 10. Ditch, Ft. Dodge, Ia. ..... May 3
May 13. Pig lead, Youngstown, O. ..... Apr. 26
Advertised, Eng. News, Apr. 26.
May 14. Caisson lock-gates, Boston, Mass. ..... Apr. 19
Advertised, Eng. News, Apr. 19 and 26.
May 14. Dredging, Detroit, Mich. ..... Apr. 19
Advertised, Eng. News, Apr. 19 to May 10.
May 15. Dredging, New York, N. Y. ..... May 10
May 17. Pontoons, etc., New York, N. Y. ..... May 10
May 18. Garbage, Indianapolis, Ind. ..... May 10
May 19. Ditch, Brainerd, Minn. ..... May 10
May 19. Flat cars, Panama ..... May 10
May 21. Stone breakwater, Buffalo, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 to May 17.
May 21. Miscell. supplies, Panama ..... May 3
Advertised, Eng. News, May 3 and 10.
May 22. Vacuum cleaning, San Francisco, Cal. ..... Apr. 19
Advertised, Eng. News, Apr. 19 and 26.
May 23. Dredging, New York, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 to May 17.
May 23. Water tunnel, Chicago, Ill. ..... May 3
Advertised, Eng. News, May 3.
May 24. Canal, Billings, Mont. ..... Apr. 12
Advertised, Eng. News, Apr. 12 to May 10.
May 24. Subway, Auburn, N. Y. ..... Apr. 19
Advertised, Eng. News, Apr. 19.
May 25. Steel bars, etc., Augusta, Ga. ..... May 10
May 28. Lock and dam, Dallas, Tex. ..... Apr. 12
Advertised, Eng. News, Apr. 12 & 19 and May 7 & 24.
May 29. Main canal, Belle Fourche, S. Dak. ..... Apr. 26
Advertised, Eng. News, Apr. 26 to May 17.
May 31. Drainage, Osceola, Ark. ..... May 10
Advertised, Eng. News, May 10.
June 2. Two battleships, Washington, D. C. ..... Apr. 5
June 4. Ditch, Muscatine, Ia. ..... May 3
June 4. Dredging, Ft. Totten, N. Y. ..... May 10
Advertised, Eng. News, May 10 to 31.
June 5. Dikes, New York, N. Y. ..... May 10
Advertised, Eng. News, May 10 to 31.
June 5. Reservoir embankment, La Junta, Colo. ..... May 10
Advertised, Eng. News, May 10 to 31.
June 6. Dredging plant, Cuba ..... Apr. 5
Advertised, Eng. News, Apr. 5 to May 31.
June 15. Distributing system, Mitchell, Neb. ..... May 3
Advertised, Eng. News, May 3 to 24.
June 27. Storage works, Portland, Ore. ..... Apr. 26
Advertised, Eng. News, Apr. 26 to May 10.
June 28. Dam, Hermiston, Ore. ..... May 3
Advertised, Eng. News, May 3 to June 7.
June 29. Canal, Portland, Ore. ..... May 10
Advertised, Eng. News, May 10 to June 7.
Sept. 4. Railway supplies, Siam (Foreign) ..... Apr. 26
Advertised, Eng. News, April 26.

CIVIL SERVICE EXAMINATIONS.

May 12. Asst. Sanitary Engr., Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 12. Bridge Draftsman, Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 12. Consult. Sanitary Engr., Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 14. Helliotroper, New York, N. Y. ..... Apr. 19
Advertised, Eng. News, Apr. 19.
May 16. Draftsman, Washington, D. C. ..... Apr. 19
May 16. Engineer, Miller, Arizona ..... Apr. 19
May 16. Linotype Machinist, Philippine Service. ..... Apr. 19
May 16. Laboratory Asst., Washington, D. C. ..... May 3
May 16. Asst. Physicist, Washington, D. C. ..... May 3
May 16. Asst. Chemist, Washington, D. C. ..... May 3
May 19. Nautical Expert, Washington, D. C. ..... Apr. 19
May 23. Mechanician, Virginia ..... May 3
May 26. Asst. C. E., Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 26. Bridge Designer, Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 26. C. E. Draftsman, Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 26. Jr. Bridge Draftsman, Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3.
May 26. Leveler, Albany, N. Y. ..... Apr. 26
Advertised, Eng. News, Apr. 26 and May 3
June 2. Chainman-Rodman, New York, N. Y. ..... May 10
Advertised, Eng. News, May 3.
June 2. Asst. Engr., New York, N. Y. ..... May 10
Advertised, Eng. News, May 3.
June 2. Topo. Draftsman, New York, N. Y. ..... May 10
Advertised, Eng. News, May 3.
June 6. Topo. Draftsman, Panama ..... May 10
June 6. Mech. Draftsman, Panama ..... May 3
June 6. Assay Asst., Washington, D. C. ..... May 3
June 6. Aid, Coast Survey, Washington, D.C. ..... May 3
June 6. Draftsman, Idaho, etc. ..... May 3

PROPOSED WORK

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **WAINWRIGHT RANDALL**
Editor Construction News

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ADIRONDACK & ST. LAWRENCE.—This company has been incorporated in New York State, with a capital of $100,000, to build a railroad from De Kalb Junction southeast to Herman, in St. Lawrence County, approximately five miles. The directors include: F. B. Van Vorst, A. Kimber, and S. H. March.

AUGUSTA CONNECTING R. R.—Company has applied for a charter to build a line about six miles long from a point near the center of Augusta to another point about five miles south of the city limts, to connect there with the Augusta & Florida Railway. The incorporators are Jacob Phinizy, James T. Bothwell, George R. Lombard, Frederick B. Pope, William H. Barrett and William E. Bush, of Augusta, Ga.; John Skelton Williams and E. L. Bemiss, of Richmond, Va.; J. Wm. Middendorf and R. Lancaster Williams, of Baltimore, Md.

BALTIMORE & OHIO. — About $150,000 will be spent for improvements at Parkersburg, W. Va., including enlargements of the freight yard to more than double its present capacity. Bids will soon be requested and work started as soon as contract is awarded. D. D. Carothers, Ch. Engr., is in charge of the work.

BOSTWICK R. R.—We are officially informed that surveys have been made and most of right-of-way obtained for this company's projected line from Bostwick to Apalachee, Ga., six miles long. Capital is secured. John Bostwick is Pres., at Bostwick, Ga., and W. B. Thomas is Ch. Engr., at Atlanta, Ga.

CARETTA RY.—We are officially advised that this line, which is an extension of the Iseger & Southern R. R., will be four miles long, connecting with band mill operations of the Virginia Pocahontas Coal Co. Company will do its own construction. Surveys and right-of-way are completed. J. N. Powell is Pres., at Bristol, Tenn. Noted on April 19.

CHICAGO, MILWAUKEE & ST. PAUL.—Contract for building a section of the Pacific coast extension from Forsythe to Harlowtown, Mont., to a junction with the Montana Railroad, which has been acquired a distance of 160 miles, has been awarded to REYNOLDS BROS., it is reported.

DANVILLE & SCOTTSVILLE.—John D. Follette, Secy., 41 East Fourth St., Cincinnati, Ohio, writes that the preliminary surveying and taking of right-of-way are now being made. Noted on April 19.

HARTWELL & WASHINGTON. — This company has been granted a charter in Georgia to build a railroad from Hartwell via Elberton to Washington, Ga., 56 miles. Capital stock is $250,000. Incorporators: W. O. Jones and W. F. Anderson, of Elbers County; J. D. Matheson, D. C. Alford, A. N. Alford, R. E. Matheson and others.

HOT SPRINGS, OUACHITA & MENA.—James F. Read, Pres., Fort Smith, Ark., states that the Hot Springs, Ouachita & Mena Ry. Co. contemplates building a line, about 50 miles long, from Hot Springs to a point near Black Springs. James B. McDonough is Secy. and Treas.

ILLINOIS, INDIANA & GARY.—Incorporated in Illinois to build an extension of the Illinois, Iowa & Minnesota Ry., from Peotone, Ill., east to the Indiana state line, from which point the road will be extended under an Indiana charter to Gary, Ind., the new industrial town on Lake Michigan just east of Indiana Harbor, which is being built by the United States Steel Corporation. The distance from Peotone to Gary is 33 miles. About 12 miles of line will be located in Illinois. Incorporators: H. W. Seaman Pres.; B. H. Harris, Traffic Mgr.; W. F. McSwiney, Pur. Agt.; and J. C. Duffin, Gen. Supt., all of the Illinois, Iowa & Minnesota Ry. See "Milwaukee, Rockford & Eastern."

LOUISIANA.—A press report from Lake Charles, La., states that C. B. Sweet, Vice-Pres., of the Long-Bell Lumber Co., of Lufkin, Texas, has announced that this company is considering plans to build a standard-gage railroad from De Ridder to Lake Charles, La.

MINNESOTA TRANSFER CO.—Theodore Simmerman, Engr., St. Paul, Minn., advises us that grading contract has been awarded to LARSON & JOHNSON. There will be required about 60,000 cu. yds. grading. Work commenced on May 1. Track laying will be done by the railroad company. Noted on April 26.

MATTAWAMKEAG & NORTHERN.—Incorporated in Maine to build a railroad from Mattawamkeag to Millinocket, 22 miles, connecting the latter place with the Maine Central R. R. and the Canadian Pacific Ry. Incorporators are: Frederick B. Greenwood, Isaac B. Wood and Joseph A. Labley, of Mattawamkeag, Me.; Artemus Weatherbee, of Lincoln, and Nathan Ingalls, of Woodville, Me.

MERIDIAN & TOMBIGBEE.—This company has applied for a charter in Mississippi to build a railroad from Meridian, Miss., to Nahoela, Ala. Surveys are being made. Incorporators: C. F. Woods, Frank Hels, A. D. McCraven, J. M. McBeath, A. Poitevent, of Meridian, Miss., and Dr. J. P. Phillips, of Sumpter County, Ala. Survey has begun and right-of-way is nearly secured. F. D. Harvey is Engr.

MILWAUKEE, ROCKFORD & EASTERN.—Incorporated in Wisconsin to build an extension of the Illinois, Iowa & Minnesota from the Illinois-Wisconsin state line at Beloit, Wis., to Milwaukee, a distance of 70 miles. Incorporators: H. W. Seaman, B. H. Harris, F. M. Clark, W. F. McSwiney and J. C. Duffin, all of whom are officers of the Illinois, Iowa & Minnesota. See "Illinois, Indiana & Cary."

NORTHERN PACIFIC.—A. GUTHRIE & CO., National German-American Bank Bldg., St. Paul, Minn., have the contract to revise the line and grades and to construct second-track from Wadena Junction, the end of the present double-tracking to Moorhead, Minn., about 87 miles. They have sublet work to DALE & BAUMGARDNER, Bank of Minnesota Bldg., St. Paul; J. W. CALLAHAN & CO., 1108 Ross St., St. Paul, Minn.; GRANT SMITH & CO.; A. D. McDOUGAL & SON, H. J. McCARTHY, LOUIS LEIMER and others.

NORTH RIVER RY.—This company will build a line from Stokesville in North River Gap, Augusta County, Va., to a point in Briery Branch Gap, in Rockingham County, Va., about 16 miles. Work is to begin within 30 days and will be done by the company. The officers are: Robert McM. Gillespie, Tuxedo Park, N. Y., Pres.; Chas. S. Walton, Philadelphia, Vice-Pres.; C. B. Williamson, Harrisonburg, Va., Secy. and Treas.; M. L. Mardis, Gen. Mgr. Company is in the market for 25-lb. and 35-lb. steel rails and narrow-gage equipment, and a 25-ton geared engine. The chief officers are the same as those of the Chesapeake Western Ry.

NORFOLK & SOUTHERN.—F. S. Gannon, president of the merged Norfolk & Southern and Virginia & Carolina Coast Railroad companies, has made the official announcement that the new Norfolk & Southern lines, extending from Norfolk to Raleigh via Washington, Greenville and Wilson, N. C., will be completed by May 1, 1907, and that the new line from Washington to Newberne, N. C., will be completed Jan. 1, 1907. The barging of trains across the Albemarle Sound at Mackeys Ferry will be eliminated by the building of a steel bridge, 5½ miles long, across the sound. The new line will give the vast northeastern section of North Carolina its first direct physical connection with the State capital. Mr. Gannon announced the following changes: "F. E. Dewey, having taken leave of absence, the duties of the general manager will be assumed by the president. M. W. Maguire is made general superintendent. R. E. L. Bunch is made traffic manager." See April 26.

OKLAHOMA & PANHANDLE.—Charter has been granted this company, with $3,000,000 capital, to build a line 300 miles long from Altus, Okla., west through the Texas Panhandle to Portales, N. Mex., and southeast from Altus to Waurika, Okla. The incorporators are Claude Miller, Robert Dunlap, C. C. Hightower, H. T. Kimble, A. C. Fagin, J. G. Atkins, J. C. McClay, E. R. McDaniel, Mike C. Lemaster and J. S. Wood, all of Altus. J. Elmer Thomas, of Lawton, Okla., is also said to be interested.

PROVO & IDAHO.—Incorporated in Utah to build a railroad from Provo to Logan, Utah. Capital stock, $200,000. David Eccles, Ogden, Utah, is Pres.; M. S. Browning, Vice-Pres.; Charles Kirchner, Secy., and H. H. Spencer, Treas.

PENNSYLVANIA. — Contracts for new construction work at a cost of $2,100,000, have been let by this company, it is reported. These contracts include the rebuilding and double-tracking of the West Penn between Funnelton and Blairsville, nine miles. When this work is completed the West Penn will be double-tracked throughout except over the bridge at the Kiskiminetas River. The contract includes the building of six stone bridges containing 94,000 sq. ft. of masonry and the boring of a tunnel 600 ft. long. The contractors are: CHARLES A. SIMS, Harrison Bldg.; H. S. KERBAUGH, Arcade Bldg.; and McMENAMIN & SIMS, Arcade Bldg., all of Philadelphia.

SOUTHERN PACIFIC.—J. A. ANDREWS & SONS, Beaumont, Tex., have been given a subcontract for building an 8-mile section on the line to be built between Lafayette and Baton Rouge, La.

TEXAS.—D. Alexander Kelly, Pres. and Gen. Mgr., of the Enterprise Lumber & Shingle Co., Waco, Tex., advises us that he contemplates building "a Southwestern railway system from New Orleans through the eastern, central and western portions of Texas to the Texas-New Mexico border line; and also from St. Louis through Missouri, Indian Territory and Texas to the Gulf of Mexico."

WINSTON-SALEM SOUTH BOUND.—O. H. P. Cornell, Ch. Engr., Winston-Salem, N. C., states that this road will be 90 miles in length, extending from Winston-Salem to Wadesboro, N. C., via Lexington, New London, Albemarle, Norwood and Ansonville. Final surveys are now being made. The contract for building two miles from Winston-Salem to Centerville has been awarded to PRUDEN & BENNETT, of Greensboro, N. C., who have begun work. F. H. Fries is Pres., Winston-Salem, N. C.

WICHITA MOUNTAIN & ORIENT.—Company has been chartered in Oklahoma to build 400 miles of track in Oklahoma and Indian Territory. Capital, $5,000,000. The line will run from east to west and will connect Lawton, Sulphur, Duncan, Atoka and other points. It will connect with the Kansas City, Mexico & Orient Ry., near Hobart, Okla., reaching this point from Lawton via Fort Sill. It is said that the line, when constructed will become part of the Orient system. The incorporators are all of Lawton, Okla., as follows: H. A. Lloyd, Wilford M. Smith, J. Elmer Thomas, E. W. Moll and Chas. A. Rising.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

SOUTH WALPOLE, MASS.—The Norfolk & Bristol St. Ry. Co. proposes to build a half-mile branch at once from its present Wrentham line to connect with a proposed park at Pleasant Lake in Foxboro, we are advised. The new line will run principally over private land. F. M. Perry, South Walpole, is Supt., and Fred. J. Wood, Foxboro, Mass., is Consult. Engr.

GENEVA, N. Y.—S. W. Hayes, Gen. Mgr. of the Geneva, Phelps & Newark R. R. Co., at Geneva, advises us that this company will be ready to let contracts in about two months. Surveys are being made between points named in title of company and right-of-way is being secured.

SAVANNAH, N. Y.—The Board of Trustees has granted a franchise to the Rochester, Syracuse & Eastern R. R. Co., of which C. A. Lux is Secy. It is said that cars will be running between here and Syracuse via Auburn before the close of the year. C. D. Beebee, Syracuse, is Gen. Mgr.

BALTIMORE, MD.—The Lorain Electric Ry. Co. has been incorporated in Baltimore County to build a line not more than twelve miles long. Capital, $25,000. The incorporators are William C. Page, Leonidas G. Turner, Dr. George Y. Everhart, William E. Zimmerman and C. Frank Emmart. They, together with James M. Blackburn, Balfour B. Parry, Jas. H. Preston and Edward W. Turner, are the directors.

FRONT ROYAL, VA.—Hugh E. Nayler, Secy. Board of Trade, advises us that capital is desired by the promoters of a proposed electric railway from Front Royal, through Rappanannock, Madison and Green Counties. Rappahannock County has subscribed $50,000 and Green County $15,000 for the road, and Madison County is expected to subscribe $25,000. S. F. Rhodes is Pres. of the Board of Trade.

ROSWELL, GA.—The Atlanta, Roswell & Cumming Electric R. R. & Power Co. proposes to build a railway from Roswell, on the Southern Railway, via Alpharetta to Cumming, Ga., about 20 miles. The line will be connected directly with Atlanta. Saxon A. Anderson, of Marietta, Ga., according to a report, has announced that $50,000 has been raised, and when the bonds are sold contract will be let. The bond issue is for $250,000.

RUSTON, LA.—We are informed by P. D. Mitchell, Secy. of Progressive League, that capital is partly secured for building an electric railway in this city, for which a franchise has been recently granted. Contracts will be let about August 1st.

TOLEDO, OHIO.—We are officially advised that contracts will be let about June 1st by the Toledo & Indiana Ry. Co. for proposed line from Bryan, Ohio, Delta, Liberty Center, Napoleon, Defiance, Ohio, and Fort Wayne, Ind. Capital is secured and also right-of-way. E. Darrow is Ch. Engr. and Mgr., at Toledo. Noted on April 26th.

CINCINNATI, OHIO.—J. C. Hooven, Pres. of the Cincinnati, Lawrenceburg & Aurora Elec. St. R. R. Co., is reported to be securing renewals of franchises and right-of-way for a line from College Corner to Oxford, Ohio, which was projected several years ago but never built. The road would be a spur line of the Cincinnati, Lawrenceburg & Aurora R. R., which now connects Delhi, Howe City, Addyston, North Bend, Cleves, Harrison, Lawrenceburg; and Aurora, operating 38 miles of line.

CLEVELAND, O.—The Cleveland Electric Ry. Co. may extend its Euclid Heights line for a distance of about three miles to Warrensville. John J. Stanley is Gen. Mgr., Cleveland.

It is stated that the Cleveland, Ravenna & Alliance Ry. Co., which is being promoted by J. R. Holcomb and C. R. Morley, of this city, to build a line from Cleveland to Ravenna, has secured about 90% of the required right-of-way. The promoters state that the company has secured a private right-of-way for more than a mile inside of the city limits.

CRAWFORDSVILLE, IND.—A petition has been filed with the Commissioners of Montgomery County, it is reported, asking that a special election be called to vote a subsidy in aid of the Crawfordsville & Northwestern Traction Co. and the Indianapolis, Crawfordsville & Western Traction Co. The first election will be held in Union Township, and the amount of the subsidy for both roads is to be $110,000.

OWOSSO, MICH.—We are officially advised that the Michigan Ry. & Light Co. will let contracts for new and reconstruction work on the Owosso & Corunna Electric Co.'s extension from Corunna to Durand as soon as franchise matters will permit. Right-of-way is obtained and capital is partly secured. Lawrence Manning is Ch. Engr and Mgr., at Owosso.

DETROIT, MICH.—A. S. Hatch, Engr., Detroit, informs us that on account of small amount of appropriation, the Common Council will not do anything this year toward installing system of gasoline automobiles across Belle Isle bridge. Noted on April 26th.

OAK PARK, ILL.—We are officially advised that capital is being secured for construction of the Chicago & Elgin Electric Ry. from River Forest to Elgin. This line will be an extension of the Chicago & Oak Park Elevated R. R. Contracts will be let as soon as survey is completed and right-of-way obtained. Company proposes to start grading in two or three weeks. F. W. Kobusch, Bloomingdale, Ill., is Pres. Emil Rudolph is Ch. Engr., 108 La Salle St., Chicago.

PERRYVILLE, MO.—At a recent meeting here business men organized a company to build an electric railway from Perryville to Clearyville, on the Mississippi River. The officers of the company are: Dr. D. F. Morton, Pres.; S. C. Marks, Secy.; A. E. Doerr, Treas.

FORT SMITH, ARK.—S. A. [illegible] Sebastian Electrical Co., Fort [illegible] us that capital is partly secured for proposed electric railway line connecting [illegible] mining towns in Sebastian County with Fort Smith. Surveys have been completed and right-of-way partly obtained. Contract for [illegible] at the Fort Smith terminal will be let and work by the company.

RYAN, IND. T.—The Red River Power Co. is preparing to build an electric railway from Ryan, Ind. T. It is said that surveys are from Lawton, Okla., to Denison, Texas, as well.

TACOMA, WASH.—W. S. [illegible] of Tacoma Ry. & Power Co. [illegible] that an electric line is to be built from Tacoma to Olympia during [illegible] cording to the Portland "Oregonian." The company operates 85 miles of line. & Webster, 84 State St., Boston, Mass., are Gen. Mgrs.

PORTLAND, ORE.—The [illegible] states that "by a deal involving [illegible] tion of $30,000,000, every [illegible] traction company in the [illegible] Valley, including Portland, [illegible] energy was consolidated on [illegible] grams confirming the merger [illegible] from New York by the head [illegible] companies. The purchasers are [illegible] & Co., E. and W. Seligman & Co., and Clark & Co., of New York. The various [illegible] absorbed and the estimated value [illegible] Portland General Electric Co. [illegible] value, $10,000,000; Portland [illegible] 000,000; Oregon Water Power [illegible] $5,000,000; Citizens' Light & Power Co., [illegible] Salem, Ore., $500,000; Vancouver Power Co., Vancouver, Wash., [illegible] Union Light & Power Co., Silverton, Woodburn & Mount Angel, Ore., $[illegible]. The headquarters of the new company will be in Portland.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BELLOWS FALLS, VT.—It is reported that a water-power station will be built by the Fall Mountain Electric Light & Power Co. L. J. Royce is Mgr.

BOLTONVILLE, VT.—We are officially informed that John L. Collins, of 414 Broadway, Albany, N. Y., will prepare plans at once for the Boltonville Electric Co. The power is to be developed on the Wells River under a 78-ft. head, to furnish light and power for the Wells River Valley; estimated cost, $45,000.

FORT WOOD (New York postoffice), N. Y.—Bids, in triplicate, are asked until 11.30 a. m., June 1, by G. C. Burnell, Constr. Q. M., for constructing electric light and power system.

FLUSHING (L. I.), N. Y.—It is reported that the New York & Queens Gas Co. intends to extend its mains from Bayside to Douglastown. Estimated cost, $10,000.

NEW YORK, N. Y.—E. H. Benn, 25 Chambers St., New York, is reported to be seeking a good location southeast of the Mississippi River, where there is an abundance of water, suitable for power purposes, and where a power and light plant are in demand.

AUBURN, N. Y.—We are officially advised that the following bids were received on April 24 for electrical conduit in Owasco St.: Barber Asphalt Co., 114 Liberty St., New York, $10,404; Brayer Bros., $12,777; Abbott-Gamble Co., 32 Broadway, New York, $8,459; Jeremiah Quill, $11,352; Warner Quinlan Asphalt Co., 42 Broadway, New York, $11,024. Contract for paving was let to BRAYER BROS. at $35,506. A. Walter Ackerman is City Engr.

ALBANY, N. Y.—Bids are asked until noon, June 2, by J. G. White & Co., Inc., 43-49 Exchange Pl., New York, for engines, generators, etc., in the State Capitol Bldg. (Advertised, Engineering News.)

SOMERSET, PA.—The Somerset Light & Power Co., it is reported, will furnish light and heat to neighboring towns. J. M. Bricker is Mgr.

HIGHLAND, MD.—It is reported that the Maryland Heat & Light Co. will supply gas to Annapolis, Baltimore County and Anne Arundel County. Joseph Schreiber is Mgr.

WASHINGTON, D. C.—Bids are asked until 10 a. m., May 29, at the Bureau of Supplies and Accounts, H. T. B. Harris, Paymaster-Gen. U. S. N., for furnishing at the works of the New York Shipbuilding Co., Camden, N. J., and the Newport News Shipbuilding and Dry Dock Co., Newport News, Va., a quantity of rammer, elevating and ammunition hoist electrical equipments.

WASHINGTON, D. C.—We are officially informed that the American Street Lighting Co., 631 Greenmount Ave., Baltimore, Md., was the only bidder for lighting the public Parks at $24.25 per light per annum.

LYNCHBURG, VA.—It is reported that the city has under consideration an electric light plant, to cost about $50,000.

SUTTON, W. VA.—The Development and Industrial Co. has been chartered to erect and operate an electric light plant and for other purposes, with a capital of $10,000. Incorporators: W. E. Hammond, Fred L. Fox, John Newlin, Charles J. Hyer and Karl A. Holy, of Sutton.

CHARLESTOWN, W. VA.—It is reported that the GAS MACHINERY CO., of Cleveland, Ohio, has contract for constructing a 4-ft. double superheater water-gas plant for the Charlestown Gas & Water Co.

CLINTON, N. C.—R. H. Hubbard, Mayor, is anxious to grant to some reputable company a franchise and other inducements to construct, own and operate a water-works and electric light plant. Plans and estimates for the municipal ownership of such works are also invited.

CLINTON, S. C.—See under Water Supply and Irrigation.

CHARLESTON, S. C.—The Bureau of Yards and Docks, Navy Dept., will shortly call for proposals for furnishing power plant apparatus for the Navy Yard, Charleston, S. C., as follows: Four 400-HP. water-tube boilers, having a nominal rated capacity of 400 HP. each, to be erected on foundations furnished by the Government. Each boiler shall be equipped with a superheater of approved construction and equipped with an approved inclined grate mechanical stoker. A flue, including connections to boilers, economizer, induction chamber and discharges of the fans to the stack, shall be supplied and installed complete, together with one fuel economizer, consisting of 28 sections of ten tubes each, the total heating capacity to be not less than 3,360 sq. ft. The stack will be installed by the Government. An induced-draft plant shall be furnished and installed, consisting of two full-housing, steel-plate, exhaust fans with flue connections, driving engines and supporting frame work. The feed-water equipment shall consist of one feed-water heater well, two boiler-feed pumps, the economizer mentioned above, two feed-water heater one water meter and necessary piping and valves. The condenser equipment consists of three condensers, each consisting of one surface condenser, one hot-well, one boiler, one motor-driven hot-well pump, one steam driven circulating pump and one rotative dry vacuum-pump, together with all necessary piping, etc. The condensers shall be of the horizontal, cylindrical type, to be connected to the turbines to be installed by the Government. One surface condenser equipment shall also be furnished and installed for connection to two air compressors to be installed by the Government. A coal-handling apparatus shall also be furnished and installed, including belt conveyor, coal crusher, elevator, runways, etc. The electrical equipment includes one 2-HP. motor for driving the cleaning gear of the economizer. Three 3-HP. motors for the three hot-well pumps. One motor of not less than 5 HP. capacity and of sufficient size to drive the coal crusher, and one motor of not less than 75-10 HP. to drive the conveyors and elevator of the coal-handling apparatus. Two fire pumps are required, each having a normal rated capacity of 1,500 gallons per minute, when delivering against a total head equivalent to a pressure of 150 lbs. per sq. in., the pumps to be of the duplex, plunger type with 12-in. water plungers and 16-in. stroke. All necessary piping is included. Separate bids will be asked for four turbo-alternators or three reciprocating engines direct-connected to A. C. generators, two exciter sets, two motor-generator sets, switchboard, transformers, wiring, etc. Two of the turbo-alternators shall have a normal rated capacity of 500 KW. each, and two a capacity of 300 KW. each. They shall be of the multi-stage or multiple-expansion, parallel-flow type, designed to operate condensing, direct connected to 3-phase, 60-cycle, 2,300-volt, separately excited, revolving-field generators. The exciter sets consist of one 35-KW. steam-driven exciter and one 35-KW. motor-driven exciter. The motor generator sets shall be two 100-KW. sets. The switchboard consists of 27 panels and designed to control one steam-driven exciter set, one motor-driven exciter set and two motor generator sets, four turbo alternators and 13 light and power feeders. There shall be furnished and installed one bank of three 37.5-KW., 2,300/230-volt, oil-insulated single-phase transformers, connected in delta. If reciprocating engines are furnished the three generating sets may consist of one of 300 KW., one of 500 KW., and one of 800 KW. The engines will be of the vertical, cross-compound, slow speed type, designed to operate condensing and direct connected. Engines shall normally operate with steam at a pressure of 150 lbs. gage and with 100° F. of superheat and a 26-in. vacuum. Separate bids will be asked for two air compressors of 1.225 cu. ft. capacity, respectively, together with certain piping, accessories, etc.

ST. PETERSBURG, FLA.—$50,000 will be expended by the city for installing waterworks. It is also proposed to build a $50,000 gas plant. T. J. Northrup is Mayor.

TUSKEGEE, ALA.—It is reported that the city will improve the electric plant, and install additional machinery. O. L. Lewis is Mayor.

DANVILLE, KY.—Bids are asked until May 15 by Augustus Rogers, Supt., for installing electric light plant in the Kentucky School for the Deaf.

PARIS, KY.—The City Council has granted a franchise to H. C. Howard & Co. for a gas lighting plant.

BARBERTON, OHIO.—THE MOHICAN OIL & GAS CO. has been awarded contract for street lighting here.

EVANSVILLE, IND.—Morgan Babcock has applied for a franchise to construct an electric light plant. He agrees to lay all wires under ground.

HEBRON, ILL.—The Practical Gas Co., of North Chicago, Ill., has been granted a franchise to construct a gas lighting plant here.

KEOKUK, IOWA.—Plans have been completed for the Keokuk water power dam. The buildings in connection will contain turbines and generator for power development. It is estimated that the entire plant will cost $10,000,000. Hugh L. Cooper is Consult. Engr.

STAPLES, MINN.—J. D. Marlin, Recdr., will ask for bids for an electric lighting system shortly.

BELLEVILLE, KAN.—Bids are asked until May 15 for 17 arc and 30 incandescent lamps. W. K. Palmer, 718 Dwight Bldg., Kansas City, Mo., is Des. Engr.; J. Ebaswell is Mayor.

GRAND ISLAND, NEB.—We are officially informed that the contract for constructing an electric light and water-works plant has been awarded to the MATHEWS ELECTRIC CO., Kansas City, Mo.

BEATRICE, NEB.—The A. S. Maxwell Gas & Electric Co., of this city, has been granted a franchise here for a gas plant.

OMAHA, NEB.—It is reported that the Lighting Committee has decided to replace 250 gasoline lamps, now used in outlying parts of the city, with about 85 arc lamps and 15 32-c. p. incandescent lamps.

Bids, in triplicate, are asked until 10 a. m., June 1, by Major M. Gray Zalinski, Constr. Q. M., for installing electric fixtures and for extending electric system at Fort Omaha.

ST. LOUIS, MO.—The Independent Electric Co., capital $10,000, has been chartered here. Incorporators: John Dowd, George J. Clark and E. F. Cunningham.

KANSAS CITY, MO.—The Electric Wiring Co., capital $7,500, all paid, has been chartered in this city. Incorporators: R. W. Hodges, John P. Phillips and C. F. Adams.

BROWNWOOD, MO.—H. T. Williams and others have incorporated the Brownwood Gas & Electric Co., with a capital of $80,000.

HOUSTON, TEX.—The Pickett-Henry Oil & Gas Co., capital $5,000, has been chartered by E. B. Pickett, J. L. Henry, George N. Torrey and others.

NEWBERG, ORE.—The Newberg Electric Light Co. and the Spaulding Logging Co. have been merged in the Yamhill Electric Co.; capital $25,000. The company will erect a new and larger plant, with 300 HP., on the Williamette River. It will be in operation by fall, and will furnish power and light.

SAN FRANCISCO, CAL.—The following telegram was sent to New York parties by John Martin, of the San Francisco Gas & Electric Co., in reference to the condition of gas plants here since the recent earthquake: "All gas manufacturing plants in first-class shape ready for business. Practically no damage outside of San Francisco, San Jose and Santa Rosa. We have ample facilities and men to cope with the problems presented. Nothing serious."

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

STERLING JUNCTION, MASS.—It is reported that the agreement for an alteration of the Boston & Maine R. R. crossing and the construction of a bridge has been approved by the Railroad Commission. The estimated cost is $18,000.

HARTFORD, CONN.—Plans have been prepared for a new steel bridge over Park River, to connect Forest St. with the Boulevard. The work will cost about $13,000, and an election will be held on the propostion of making an appropriation of this sum. Frederick L. Ford is City Engr.

NEW YORK, N. Y.—We are officially informed that the following bids were received for constructing the Manhattan Bridge over East River: American Bridge Co., 42 Broadway, $8,312,146; John Price Co., 277 Broadway, $6,596,638; Ryan & Parker Construction Co., 21 Park Row, $6,493,223; General Erecting Co., $6,769,983; Milliken Bros., 1 Broadway, $7,596,192. The bid of King Bridge Co., 227 Broadway, was withdrawn. It is reported that protests against certain bidders have been filed.

BATAVIA, N. Y.—Bids are asked until 10 a. m., May 19, by John Thomas, Supervisor, 66 Main St., Batavia, N. Y., for building the steel superstructure and concrete flooring of a highway bridge over Tonawanda Creek. (Advertised, Engineering News.) Plans, specifications and building sheet are on file at the office of Engineering News, New York.

PITTSBURG, PA.—Bids are asked until 10 a. m., May 11, by the Department of Public Works for constructing the Hahn St. bridge. James W. Clark is Dir. Dept. Pub. Wks.

BLAIRSVILLE, PA.—Plans have been adopted by the Pennsylvania R. R. for building eight bridges between Blairsville and Tunnelton. Alexander C. Shand is Ch. Engr.; H. R. Leonard is Engr. of Bridges, both at Philadelphia.

WILKES-BARRE, PA.—Plans, specifications and bidding sheet for iron bridge to be erected here, as noted in issue of April 26, are on file at office of Engineering News, New York. Bids are asked until May 25.

PORT ORANGE, FLA.—The contract to construct bridge over Halifax River has been let to the PORT ORANGE BRIDGE CO., of this town, at $20,000.

JACKSONVILLE, FLA.—We are officially advised that the Alafia, Manatee & Gulf Coast Ry. Co. is in the market for approximately 15,000 lin. ft. of vitrified or cement pipe, or other effective protection for covering piles in bridge about two miles in length, now under construction across Gasparilla Sound. Communications should be addressed to L. M. Fouts, Gen. Mgr., 316 Duval Bldg., Jacksonville, Fla.

CLINTON, LA.—Plans and specifications for reconstruction of the Sterling bridge, recently destroyed by floods, are now being prepared. It is estimated that the bridge can be replaced for $45,000.

ALEXANDRIA, LA.—Bids are asked until 2.30 p. m., May 22, by the Police Jury, for constructing a steel highway bridge over the Bayou Boeuf. Ira W. Sylvester is Constr. Engr.

CHATTANOOGA, TENN.—It is reported that a bridge, costing about $200,000, will be built across the Tennessee River. The Chattanooga Co., Ltd., is interested in the project.

CAMDEN, TENN.—Bids are asked until May 22 by Judge W. T. Morris for building an iron bridge over Big Sandy River, in Brenton and Henry Counties. W. D. Cooper is County Clk.

SPRINGFIELD, OHIO.—Bids are asked until 1.30 p. m., May 17, by the Commissioners of Clark and Green Counties, at the office of A. K. Hahn, County Audr., Springfield, for constructing a joint bridge 189 ft. long. The bridge is to have an 18-ft. roadway and a single track.

OTSEGO, MICH.—The Township has decided to build a steel bridge, to cost $5,500, over the Kalamazoo River.

LAFAYETTE, IND.—G. P. Smith, Ch. Engr. of the Lake Erie & Western R. R., has finished plans for a bridge, to be built here, over the Wabash River. The bridge will be 600 ft. long and of the latest model. J. N. Penwell, Tipton, Ind., is Supervisor of Bridges.

PEORIA, ILL.—Competitive plans will be received until May 28 for bridge across the Illinois River. The bridge will be constructed of steel concrete, on concrete piers, and will have a 22-ft. roadway and two 5-ft. sidewalks. It must have a capacity of 125 lbs. per sq. ft. Estimated cost, $110,000. D. H. Roberts is Asst. City Engr.

LEES SUMMIT, MO.—Bids are asked by the County Court for two 20-ft. bridges on the Lees Summit and Greenwood road.

PINE BLUFF, ARK.—The Bridge Commissioners will have soundings made at once for locating a free bridge at some point between the court-house and the eastern limit of the city. John P. Harper is City Engr.

BATESVILLE, ARK.—Bids are asked by the County Judge for constructing steel bridges in Independence Co., over five streams.

WACO, TEX.—Instead of rebuilding its bridge over the Brazos River, the Colton Belt and Northern R. R. will construct an entirely new one. The surveys and all preliminaries have been arranged. Wm. Carlisle is Pres. and Gen. Mgr.

CORPUS CHRISTI, TEX.—Bids are asked until May 16 by the County Judge, Nueces County, for an iron bridge over the Nueces River at Santa Margarite Crossing.

OAKVILLE, TEX.—Bids are asked until May 15 for a steel bridge over the Nueces River at Miller's Ferry.

HOUSTON, TEX.—Bids are asked until noon, May 16, by John B. Ashe, County Audr., for construction of a bridge over Carpenter's Bayou, on the Houston and Crosby road.

DENVER, COLO.—Bids are asked until noon, May 26, by T. W. Jaycox, State Engr., for constructing two spans, each 42 ft. long, of a highway bridge over Clear Creek, near Denver.

MAYBELL, COLO.—Bids are asked until noon, May 26, by T. W. Jaycox, State Engr., for constructing the superstructure of a combination steel and wood or steel bridge across Yampa River, at Fraker's Ford, near Maybell. The bridge will have two spans of 128 ft. each.

PORTLAND, ORE.—Bids are asked until 4 p. m., June 8, by Thomas C. Devlin, City Audr., for constructing a steel bridge on Grand Ave., 375 ft. long. Douglas W. Taylor is City Engr.

TWICKENHAM, ORE.—We are officially informed that the NORTHWESTERN BRIDGE CO. has contract to build complete bridge here, at $6,988.

MINIOTA, MAN.—Bids are asked until May 15 by W. Howard for building a Howe truss bridge here over the Assiniboine River.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

MARBLEHEAD, MASS.—Plans are in progress at the office of Kilham & Hopkins, Archs., 9 Park St., Boston, for a 3-story brick and wood school building for this town.

NORWICH, CONN.—C. H. Fourier, Arch., of this city, is preparing sketches for a 6-story brick apartment house to be erected on Franklin Sq. Estimated cost, $65,000.

ALBANY, N. Y.—Fuller & Pitcher, Archs., will prepare plans and specifications for a new building for the Albany Institute and Historical Art Society. Estimated cost, $50,000.

SYRACUSE, N. Y.—We are officially advised that the contract for a 4-story brick and reinforced concrete warehouse at Franklin and Walton Sts., for Hall & McChesney, has been awarded to the CONSOLIDATED ENGINEERING & CONSTRUCTION CO., of this city.

NEW YORK, N. Y.—Plans have been filed by Maynicke & Franke, Archs., 298 Fifth Ave., for an 11-story brick building, with store, 50 × 100 ft., at 576-578 Fifth Ave., for S. Frankel, 68 Nassau St. Cost, $200,000.

By Pollard & Steinam, Archs., 234 Fifth Ave., for a 7-story studio and apartment building on West 88th St. Fireproof, brick, stone and steel, costing $300,000.

By John Signell Co., owners, 125th St. and Claremont Ave., for two apartment houses at Broadway and 143d St., each 99 × 90, costing $200,000.

By G. F. Pelham, Arch., 503 Fifth Ave., for two 6-story brick apartment houses at Amsterdam Ave. and 159th St. Owner, R. Arnstein, 117 West 114th St. Cost, $135,000.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. Dept. Public Charities, until 3 p. m., May 17, for the construction of a dormitory at the City Hospital, Blackwell's Island.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., May 21, for the construction of buildings for the Parental School, Flushing, Boro. of Queens.

NEW YORK, N. Y.—R. E. Henningham, 5 Court Sq., was lowest bidder for the general construction of two additional stories to Public School 91, on Albany Ave., Boro. of Brooklyn, at $72,194. Bids were opened May 7.

The following bids were received May 7 for the general construction Public School 104, at 92d St. and Gelstone Ave., Boro. of Brooklyn: Jno. Auer & Sons, 957 Broadway, Brooklyn, $165,394; F. W. Carlin Const. Co., 26 Court St., Brooklyn, $164,000; Tolmie & Kerr, 205 West 30th St., New York, $173,670. Thos. Cockrell, 68th St. and Columbus Ave., New York, $169,000; R. E. Henningham, 5 Court Sq., New York, $162,600; P. J. Walsh, 503 Fifth Ave., New York, $166,600; Arci Const. Co., 99 Broadway, Brooklyn, $154,800; C. H. Peckworth, 415 Hudson St., New York, $161,397; Geo. Hildebrand, 38 Park Row, New York, $168,500; P. J. Brennan, Fuller Bldg., New York, $178,000; Clarke & Stowe, 44 Court St., New York, $167,300.

Raymond & Almirall, Arch., 57 Chambers St., have plans in progress, according to reports, for a public bath at Fourth Ave. and President St., Boro. of Brooklyn. Building will be two stories high, brick, stone and concrete, 60 × 92 ft., and cost $100,000.

NEW YORK, N. Y.—Plans have been filed by Joan H. Duncan, Arch., 208 Fifth Ave., for alterations to be made in the building of the Colonial Club at Broadway and 72d St. The building will be made into an office and store building, at a cost of $50,000, for the Lincoln Trust Co.

Plans have been completed by Barrett, Haynes & Barrett, Frisco Bldg., St. Louis, and contract awarded to the WESTLAKE CONSTRUCTION CO., St. Louis, for an 18-story office building, 30 × 55 ft., at 1 Wall St. Estimated cost, $300,000.

Charles Volz, Arch., 160 Fifth Ave., has plans ready for figures for a garage at 102-106 West 107th St., for the Atlas Motor Co., 87 Thomas St. Four stories, 75 × 96 ft., brick, stone and concrete, structural iron, costing $60,000.

The Broadway Cortlandt Co., Robert E. Dowling, Pres., will erect a 26-story fireproof office building at 165-167 Broadway and 13-21 Cortlandt St.

CAMDEN, N. J.—Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, have invited bids for the erection of a 4-story office and laboratory building at Front and Cooper St., for the Victor Talking Machine Co., 80 × 100 ft., reinforced concrete construction, costing about $70,000.

TRENTON, N. J.—H. A. Hill, Arch., 40 East State St., has invited bids for a high and manual training school for the Board of Education. Brick and stone, three stories. Cost, $100,000.

C. SCHNELL & CO., Drexel Bldg., Philadelphia, have been awarded the contract for a parochial school for the Church of the Immaculate Conception. Three stories, stone, costing $75,000.

READING, PA.—Plans will be prepared by George L. Gerhard, Arch., 519 Penn St., for an apartment house for W. M. Griscom. Brick, stone and steel, fireproof, eight stories, costing $150,000.

BETHLEHEM, PA.—Bids will soon be asked by Lehigh University for a new dormitory building. Brick, stone and steel, three stories, 50 × 600 ft., costing $100,000. Henry S. Drinker is Pres.

PHILADELPHIA, PA.—The Philadelphia Rapid Transit Co. will erect a car barn, 400 × 520 ft., 1-story, reinforced concrete, costing $150,000. W. S. Twining, 820 Dauphin St., is Ch. Engr.

W. Copeland Furber, Arch., 624 Walnut St., has awarded a contract to ROYDHOUSE, AREY & CO., Fidelity Bldg., for an addition to the bank and office building of the Central Trust Co., at Fourth and Market Sts. Six stories, 22 × 80 ft., brick and terra cotta, costing $75,000.

WASHINGTON, D. C.—Gleeson & Humphrey, 1216 North Capitol St., were lowest bidders, at $46,450, for the construction of an 8-room school building on O St., between 32d and 33d Sts. N. W.

WASHINGTON, D. C.—Capt. John Stephen Sewell, Corps Engrs., in charge of the construction of the Army War College, Washington Barracks, Washington, has awarded to the NATIONAL MOSAIC CO., 1328 Penn Ave. N. W., contract for furnishing terrazzo flooring and wall base at 20 cts. per sq. ft. and 40 cts. per lin. ft., respectively.

Henry A. Willard, Fairfax Court-House, Va., has awarded contract to HENRY HULL, 117 U St. N. W., Washington, for a 4-story, fireproof, brick and stone office building at 1422 F St. N. W. Estimated cost, $55,000.

WASHINGTON, D. C.—Bids are asked until 2 p. m., May 15, by Elliott Woods, Supt. U. S. Capitol Bldg. and Grounds, for fireproof floor construction for several floors of the office building of the House of Representatives.

BIRMINGHAM, ALA.—The Birmingham Terminal Co. has awarded a contract to OLIVER SOLLITT CO., 140 Dearborn St., Chicago, Ill., for a new passenger terminal at this place. Brick, stone and steel, fireproof, 1-story, 800 × 150 ft., costing $400,000.

NEW ORLEANS, LA.—The Maison Blanche Co., of this city, will build a 15-story office building, at a cost of about $1,700,000. JAMES STEWART & CO., of New Orleans, have contract for the construction. The first five floors will be occupied as a store for the owners.

KNOXVILLE, TENN.—JOHN W. EMERY, of 1525 Sansom St., Philadelphia, Pa., has secured contract for building a church and Sunday-school for the Second Presbyterian Church. The building will be 1-story, stone, and will cost about $100,000.

MEMPHIS, TENN.—It is estimated that the new court-house to be built here will cost $700,000. About 50,000 cu. ft. of marble will be used in the erection. The bids will be advertised for during May and June, receivable in about 60 days after first advertisement, and awards will be made as soon as possible.

Plans for a theater, to cost about $50,000, and to be built on Jefferson St., Memphis, are now being prepared by J. B. McElfatrick & Son, Knickerbocker Bldg., New York.

LOUISVILLE, KY.—Bids are asked for erecting the proposed Coliseum at Fourth and A Sts. The building is to be 260 × 150 ft., and of brick and steel construction. James B. Camp is Mgr.; Brinton B. Davis, 500 Masonic Bldg., Louisville, is Arch.

Contract for new Pearl St. school has been let to CALDWELL & DRAKE, at $50,000. Thomas & Bohne, Keller Bldg., are Archs.

The contract has been let to THE OLIVER CO., of Knoxville, Tenn., to build a 9-story brick and stone warehouse, 150 × 150 ft., for the Belknap Hardware & Mfg. Co. Dodd & McDonald, 600 Equitable Bldg., are Archs.

PROPOSED WORK

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **WAINWRIGHT RANDALL**
Editor Construction News

CLEVELAND, OHIO.—JOHN GRANT & SON, 205 Cornell St., have been awarded contract for constructing Y. M. C. A. building, at $150,000.

AKRON, OHIO.—GEORGE W. CARMICHAEL & CO., of this city, have received the contract, at $82,586, for construction of an addition to the high-school on Forge St. J. F. Barnhart is Clk. Milton E. Harpster, 55 Central Savings & Trust Bldg., prepared the plans.

INDIANAPOLIS, IND.—The Pasadena Park Association has ordered plans for construction of 300 apartment houses, between West New York and West Michigan Sts., in Pasadena Park. The buildings will be built of brick and reinforced concrete. George N. Bedell is Arch.

EVANSVILLE, IND.—The Lockyear Building Co., recently incorporated, has ordered plans for erection of a modern 10-story office building, to cost about $200,000.

MUNCIE, IND.—The Building Committee of the Y. M. C. A. of this city will soon ask for bids for construction of a new building, to cost about $100,000.

CHICAGO, ILL.—H. M. G. Garden, 172 Washington St., has prepared plans for a warehouse to be built at Division and Hickory Sts., for Barrett Mfg. Co., manufacturers of roofing materials, 1005 First National Bank Bldg., 164 Dearborn St. It will be 300 × 150 ft., of brick, with composition roof, and cost $65,000. VALENTINE, JOBST & SONS, Peoria, Ill., have the general contract.

CHICAGO, ILL.—The Chicago Musical College will build a 6-story fireproof building, to cost about $400,000. The building will contain quarters for students, studios, an auditorium and stage. Marshall & Fox, First National Bank Bldg., are Archs.

THE E. P. STRANDBERG CO., 161 La Salle St., has the general contract for a residence to be built at Lake Forest, Ill., for Ernest A. Hamil, Pres. Corn Exchange National Bank, 217 La Salle St., Chicago. It will have two stories and attic, 35 × 120 ft. in extreme dimensions, brick and concrete foundation, pressed brick superstructure, various kinds of hardwood finish, steam heat, all modern improvements, and will cost $60,000. Spencer & Powers, 17 Van Buren St., are Archs.

The following contracts have been let for constructing a 3-story store and apartment building on Twelfth St. by H. L. Ottenheimer, 715 Fort Dearborn Bldg., Arch.: Masonry, NAPOLEON PROVOST, 620 West Taylor St.; plumbing, NILSON BROS., 1514 Belmont Ave.; heating, F. J. NORTON, 8 North State St.; iron work, the BUTLER ST. FOUNDRY & IRON CO., Butler St.

ST. PAUL, MINN.—The St. Paul Sanitarium Association, Dr. Robert O. Earl, Pres., will erect a sanitarium at Earl and Thorn Sts. Buechner & Orth, 602 Manhattan Bldg., are Archs. Estimated cost, $75,000.

The Ruskus School, Mrs. C. H. Backus, Prin., will erect a 2-story brick and stone building, to cost $60,000. Thord, Alban & Fisher, Chamber of Commerce Bldg., are Archs.

J. A. MacLeod, Endicott Bldg., is preparing plans for a 4-story warehouse and factory for R. Schiffmann & Co., at West Sixth St. Estimated cost, $75,000.

MINNEAPOLIS, MINN.—E. L. Masqueray, Arch., is making plans for a Roman-Catholic Cathedral, to cost about $500,000.

WASECA, MINN. Plans for a 2-story brick and stone bank and post-office building are being prepared by F. D. Orff, Lumber Exchange, Minneapolis. Estimated cost, $40,000.

PORTLAND, ORE. Mrs. C. H. Lewis will build an 8-story block on Fourth St., the plans for which have been made by D. C. Lewis.

LOS ANGELES, CAL.—Additions to amount to about $88,100 will be made to a 3-story building at First and Spring Sts. F. O. ENGSTRUM CO. has contract for work. Morgan & Walls, 232 North Main St., are Archs.

J. E. and Robert Marsh will erect a 7-story hotel on the north side of Eighth St. Estimated cost, $100,000. Fred R. Dorn, Arch., Douglas Bldg., has charge of construction.

SAN FRANCISCO, CAL.—The Humboldt Bank will erect a 17-story structure on Market St., east of Fourth, to cost $500,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

CHARLESTOWN, N. H.—The contract for hydrants for the water department has been let to the FAIRBANKS CO., of Hartford, Conn. THE CHAPMAN VALVE CO. received the contract for grates and valves.

HANCOCK, N. H.—The FAIRBANKS CO., of Hartford, Conn., has been awarded the contract for hydrants and valves by the water department.

PORTSMOUTH, N. H.—Bids are asked until 11 a. m., May 26, by the Bureau of Yards and Docks, Navy Dept., Washington, for furnishing two 8-in. motor-driven centrifugal pumps at navy yard, Portsmouth. Specifications are on file at the office of Engineering News, New York. Mordecai T. Endicott is Ch. of Bureau.

SPRINGFIELD, VT.—The contract for ditch work and pipe laying for the new water system in this town, for which bids were opened April 20, was awarded to ABLETT & BOWES, of Cohoes, N. Y., at $6,-619.50; the contract for hydrants to the HYDRANT & VALVE CO., of Boston, Mass., and contract for valves and gates to CHIPMAN VALVE CO., Boston.

NEW YORK, N. Y.—Bids are asked until 2 p. m., May 23, by William B. Ellison, Comr. Dept. Supply, Gas and Electricity, for furnishing and laying a 72-in. steel pipe from the Borough of Brooklyn to Valley Stream, L. I.

Bids are asked until 2 p. m., May 23, by William B. Ellison, Comr. Dept. Water Supply, Gas and Electricity, for furnishing and installing steam piping in the Jerome Park and 79th St. pumping stations.

NEW YORK, N. Y.—We are officially advised that the following bids were received May 2 by William B. Ellison, Comr. Dept. Water Supply, Gas and Electricity: For furnishing and delivering c.-i. pipe and special castings—U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, $145,385; Warren Foundry & Machine Co., 170 Broadway, $143,740; John Fox & Co., 253 Broadway, $143,975. For furnishing, constructing and erecting the Canarsie pumping station near Ave. D. and Remsen Ave., in Brooklyn—Richard Whalen Co., 255 40th Ave., Bay Ridge, $23,781; Stacy B. Oodyke, Jr., 1931 Broadway, New York, $20,572; Kelly & Kelly, 45 East 42d St., New York, $24,400; James McArthur, 22 Ormond Pl., Brooklyn, $26,189. For furnishing, etc., two pumping engines with foundations, auxiliaries and piping at the Canarsie pumping station—Platt Iron Works, Detroit, Mich., $42,205; Snow Steam Pump Works, 114 Liberty St., $42,937; Allis-Chalmers Co., Milwaukee, Wis., $48,-000; Marine Engine & Machine Co., 126 Liberty St., New York, $38,850. For furnishing, delivering and erecting three boilers at the Canarsie pumping station—B. Franklin Hart, Jr., Co., 143 Liberty St., New York, $18,315; E. Burhorn, 71 Wall St., $19,879; Donegan & Swift, 6 Murray St., $20,286. For furnishing, etc., steam fittings and appurtenances for Canarsie pumping station—Blake & Williams, 211 West 20th St., New York, $4,565; Frank Dobson, 319 East 53d St., $8,763; E. Rutzler Co., 127 White St., $7,439; William Horne Co., 254 West 26th St., $6,323.

STOYESTOWN, PA.—It is reported that the Stoyestown Water Co. has obtained a charter. George S. Lohr is Treas.

PHILADELPHIA, PA.—Bids are asked until noon, June 4, by Thomas L. Hicks, Dir. Pub. Wks., for constructing Torresdale pipe distribution system, comprising about 23 miles of 48-in. pipe. (Advertised, Engineering News.)

We are officially advised that STUART WOOD, 400 Chestnut St., Philadelphia, has contract for six water tube boilers, including superheaters, etc., at $68,500, and for six centrifugal pumps driven by vertical cross compound engines, at $136,900. Major Cassins E. Gillette is Ch. Engr. of Bureau of Filteration.

SOUTH BETHLEHEM, PA.—Bids are asked until noon, May 16, by Chapin & Knowles, Consult. Engrs., 1017 Frick Bldg., Pittsburg, Pa., for a 7,000,000-gallon steam pumping engine. M. P. Quinn is Pres. (Advertised, Engineering News.)

MANCHESTER, VA.—Bids are asked until May 15, for construction of a gravity filteration plant with a daily capacity of 2,000,000 gallons. Matthew Morton is Secy.

CHATHAM, VA.—Plans and specifications for stand-pipe to be erected at Chatham, as noted in issue of April 26, are on file at the office of Engineering News, New York. Bids are asked until May 18.

NEWPORT NEWS, VA.—The Newport News Light and Water Co. has received nine bids for the construction of a new reservoir at 59th St. and Huntington Ave. as follows: J. W. Davis, Newport News, $22,300; Abbott-Gamble Co., New York, $33,000; James F. Bradley and W. J. McAughly, Richmond, $22,227; Alsop & Pierce, Newport News, $23,-900; Southern Construction Co., Norfolk, $24,-789; Miller-Collins Co., New York, $32,570; Phipps & Cooper, Newport News, $21,675; Barbour, Leay & Temple, Newport News, $33,000; West Richardson, Newport News, $19,300. Contract will be awarded within a few days. T. E. Pearse is City Engr.

ADA, W. VA.—It is stated that a pump will be erected at this place and several 450-HP. boilers installed. The Bluefield Water-Works & Improvement Co., of Bluefield, W. Va., is owner.

BISHOPVILLE, S. C.—At a recent election it was decided to extend the water-works at a cost of $5,000.

CLINTON, S. C.—Bids are asked until May 29, by the Water-works Commission, for water-works system and electric light plant. J. A. Bailey is Comr. Water Wks. Charles C. Wilson, 1302 Main St., Columbia, S. C., is Consult. Engr.

PALMETTO, FLA.—Bids for the construction of a water-works and electric light plant will soon be asked. Bonds have been authorized to defray expenses.

FORT DADE (Egmont post-office), FLA.—We are officially advised that the following bids were received on April 25 for seven 6,000-gallon cypress tanks and foundations: T. J. Wallace, Tampa, Fla., new tanks, complete, each, $250; foundations, each, $50; H. B. Riden, Tampa, tanks, $239; foundations $65. J. H. Jordan is Constr. Q. M.

GREENVILLE, OHIO.—The contract for a pump and water-works plant for this city has been awarded to C. O. LUCAS & CO., at $4,100.

AKRON, OHIO.—Chas. E. Perkins, of Columbus, will construct a storage reservoir in this county as a feeder for the Ohio Canal.

GRAND RAPIDS, MICH.—Bids are asked until 2 p. m., June 1, for constructing an elevated steel or reinforced concrete tank, 50 ft. in diameter and 60 ft. deep. L. W. Anderson is City Engr. (Advertised, Engineering News.)

AURORA, MINN.—Bids are asked until June 1, by F. V. Anderson, Village Recdr., for construction of water system.

SAGINAW, MICH.—It is reported that a filtration plant, to cost about $100,000, and to have a daily capacity of 10,000,000 gallons, is under consideration. R. W. Roberts is City Engr.

GALESBURG, ILL.—Bids are asked until 5 p. m., June 4, by L. F. Brown, City Clk., for drilling a deep well, 8 ins. in diameter; also for an air compressor to furnish air to pump, and deliver to reservoir 1,500,000 gallons a day. (Advertised, Engineering News.)

MAYVILLE, WIS.—We are officially advised that contract for all of water system, excepting building for pumping station, has been let to the DES MOINES BRIDGE & IRON CO., at $28,000. E. Schwartz is City Clk.

ELK CITY, KANS.—This city has voted in favor of the issuance of $25,000 of bonds for the construction of a water-works system.

DICKINSON, N. DAK.—Bids are asked until May 21, for constructing water system. Loweth & Wolff are Consult. Engrs., St. Paul, Minn.

WEBSTER, S. DAK.—It is reported that bids are asked for construction of 3,000 ft. of water mains.

ALTON, MO.—The Alton Water Co. has authorized J. F. Porter, James Duncan and others, at Alton, Mo., to procure plans for improving the water system, at a cost of $200,000.

BROWNWOOD, TEX.—Bids are asked until June 5, by the Water Committee, for 2,000 cu. yds. concrete work and 7,000 cu. yds. of excavation, in connection with a dam and reservoir.

ATLUS, OKLA.—The contract to build the water-works and electric light system for this city has been awarded to McQUATTERS PLUMBING & MACHINE CO., of Hillsboro, Tex., at $28,000.

OKLAHOMA CITY, OKLA.—We are officially advised that the following contracts have been let, for which bids were received on April 24, for constructing water-works system: for boilers, ENGINEERING IRON WORKS, Kansas City, Mo., at $9,130; pumps, FRED N. PRESCOTT, Milwaukee, Wis., $14,440; filter, GREER FILTER CO., Philadelphia, Pa., (a) $59,470, (b) $38,900. Burns and McDonnell, Engrs., Kansas City, Mo., inform us that bids for installing system, settling basins, chimney and powerhouse were rejected, and work probably will be done by the city. The following bids were received for installing the system: T. C. Brooks & Son, Jackson, Mich., $39,013; W. W. Cook & Son, Junction City, Kans., $34,-460; C. M. Ozburn, 508 Great Northern St., Chicago, $48,039; Dwyer Pl. & H. Co., St. Paul, Minn., $46,289; N. S. Sherman, Oklahoma City, $32,593; Charles T. Derr, Oklahoma City, $37,735. N. S. Sherman's bid of $27,000 was the lowest for setting basins.

MARLOW, IND. T.—Installation of the city water-works at a cost of $20,000 will be begun at once by the O'Neil Engineering Co., of Dallas, Tex.

SULPHUR, IND. T.—We are officially advised that an artesian well will supply the proposed plant at Sulphur. The plant will be owned by the municipality, and is estimated to cost $50,000. E. K. McGinnis is Mayor.

LA JUNTA, COLO.—Bids are asked until 10 p. m., June 5, by George A. Kilgore, Secy. of Otero Irrigation District, for construction of reservoir embankment at Clear Creek, Chaffee County, Colo. A. D. Best is Pres. (Advertised, Engineering News.)

We are officially advised that the following are the contracts awarded for constructing water-works plant in this city: for installing system, A. M. OZBURN, Great Northern Bldg., Chicago, at $14,656; for hydrants and valves, Rensselaer Mfg. Co., Troy, N. Y., at $2,065; for c. i. pipe, MINE SMELTER SUPPLY CO., Denver, Colo., at $18,758; for cross-compound pump, FRED M. PRESCOTT, Milwaukee, at $5,788. Burns and McDonnell, of Kansas City, Mo., are Engrs.

SEATTLE, WASH.—It is reported that the Fidelity Land & Irrigation Co. has been organized with a capital of $250,000, to supply water from artesian wells.

ROSALIA, WASH.—Bids are asked until May 21 by F. C. Checkal, Town Clk., for constructing a water-works system, including a 250,000-gallon reservoir. D. F. Anderson is Mayor.

TACOMA, WASH.—The special Water Committee has decided to advertise for bids for two propeller and one centrifugal pump, with motors to run them.

PORTLAND, ORE.—Construction of 25 miles of canal. See under Miscellaneous Contracts. (Advertised, Engineering News.)

ALTURAS, CAL.—The Town of Alturas is figuring on a water system to cost about $20,000. A well 300 ft. deep will be sunk and a tank built with capacity of 90,000 gallons. Electric pump will be used to raise the water.

FARMINGTON, UTAH.—This town will install water system to cost $15,000.

REXBURG, IDAHO.—We are officially advised that the WHEELWRIGHT CONSTRUCTION CO., of Ogden, Utah, has contract for installing water-works system here, using Kalamein pipe, at $19,522. Other bidders were: Hanley & Ritchie, c.-i. pipe, $23,662, Universal c.-i. pipe, $22,279; McMullen & Perriam c.-i. pipe, $26,100, Kalamein pipe, $21,773.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

WHITINSVILLE, MASS.—Bids were received by the Board of Sewer Commissioners for constructing a sewer system, as follows: F. S. & A. D. Gore Corporation, Boston, Mass., $54,195; W. S. Brock, Boston, Mass., $47,103; H. A. Hanscomb, Boston, Mass., $46,349; J. E. Palmer, Boston, Mass., $45,-061; C. E. Trumbull & Co., Boston, Mass., $44,576; G. M. Bryne & Co., Boston, Mass., $41,664; Bruno, Salmone & Petitti, Boston, Mass., $40,706; F. L. A[illegible] Mass., $38,479; D. A. Dore[illegible] ville, Mass., $35,355.

PEABODY, MASS.—Snow [illegible] Engrs., Tremont Bldg., Bo[illegible] prepared plans for construc[illegible] factory drainage, at a cost [illegible]

EASTHAMPTON, MASS [illegible] constructing new sewers h[illegible] to WILLIAM ORLANDO, of [illegible] $9,000.

WATERBURY, CONN.—PA[illegible] TALDI has been awarded [illegible] installing sewers in sev[illegible] $4,597.

NEW HAVEN, CONN.—C[illegible] Engr., has prepared plans [illegible] the new State St. sewer; to[illegible] $40,000. Bids will soon be [illegible]

AMSTERDAM, N. Y.—Bids [illegible] the Sewer Commissioners u[illegible] constructing a sewer system [illegible] City Engr.

NEW YORK, N. Y.—Th[illegible] constructing several sewers [illegible] has been awarded to PASQUA[illegible] Newark, N. J. JAMES G[illegible] Vernon, N. Y., was awarded [illegible] paving Hobart St.

BUFFALO, N. Y.—We are [illegible] vised that bids are asked u[illegible] the Board of Public Works fo[illegible] sewers in Main, Doat and R[illegible] in Ruhland Ave.

NORWICH, N. Y.—We are [illegible] vised that the following bid[illegible] on May 4 by A. D. Miller, Pr[illegible] Comrs., for constructing about [illegible] sewers: John Webber & Son [illegible] St., N. Y., $18,383; Golden & L[illegible] N. Y., $17,322; F. E. Spinner [illegible] St., N. Y., $18,897; C. H. Qu[illegible] vinville, N. Y., $14,541; H. S[illegible] tuck, Conn., $17,305; Meriden [illegible] Co., Meriden, Conn., $18,829; C[illegible] Norwich, N. Y., $18,389; Co[illegible] nelly, Elmira, N. Y., $14,8[illegible] Tibbets, Oneida, N. Y., $15,672 [illegible] ser, Kingston, Pa., $15,472. F[illegible] is Engr.

BOUND BROOK, N. J.—Bid[illegible] until 8 p. m., May 15, for [illegible] 4,654 lin. ft. pipe sewers. R. H [illegible] is Mayor; F. N. Voorhees is Boro Clerk.

CAMDEN, N. J.—AARON WA[illegible] the contract for constructing the Big Lane ditch sewer.

SCRANTON, PA.—We are officially advised that bids are asked until 10 p. m., May 21, for constructing 38,300 lin. ft. of brick sewers in Section "A," 18th District, 20th Ward. Henry Jifkins, City Engr.

BALTIMORE, MD.—The "News" on May 2 stated that "within two weeks the Sewerage Commission expects to have the report of the consulting engineers who were engaged last year to study the local problem and recommend a system for the disposal of the sewage and the construction of the sewers. All preliminary work will wait until the report is received, is well in hand and Calvin W. Hendrick, Sewerage Engr., believes that the actual construction of the great drainage system can begin within six months after the question of disposal and the location of the pumping station is decided. So by next fall the Commission expects to begin to dig dirt." It is estimated that storm sewers to be built this year will cost $54,350.

NORFOLK VA.—Bids are asked until noon, May 23, by B. Gray Turnstall, Chn. Bd. St. and Sewer Comrs., for 120 ft. concrete culvert on pile foundation, 3,852 ft. sewer with house connections, manholes, flush-tanks, clean-out pipes; 2,000 cu. yds. excavation, and 6,000 cu. yds. extra filling. (Advertised, Engineering News.)

WHEELING, W. VA.—The FORT HENRY CONSTRUCTION CO. has been awarded contract for a sewerage system in the town of Warwood.

JACKSONVILLE, FLA. — See under Bridges.

NEWPORT, KY.—Bids are asked about May 20 for constructing 12 and 18 in. pipe lateral sewers, at $25,000. J. B. Morlidge is City Engr.

LOUISVILLE, KY.—PAUL & KIRCHNER, of Dayton, Ohio, have been awarded contract for construction of Mechanic St. sewer.

PERU, IND.—Bids are asked by the Board of Public Service for constructing 2,000 ft. 30-in. tile sewer. H. L. Hall is City Engr.

INDIANAPOLIS, IND.—It is reported that final action was taken by the Board of Public works on the resolution to build a sewer system for West Indianapolis at an estimated cost of $225,000.

GRAND RAPIDS, MICH.—The City Council has made an appropriation of $10,000 for construction of a sewer from the Michigan Soldiers' Home at North Park.

ESCANABA, MICH.—Bids are asked until June 15 for constructing 4,678 ft. San. sewer.

LINCOLN, ILL.—The Board of Local Improvements will receive bids for constructing 12-in. sewer in Eighth St. S. C. Greenslate is City Clk.

GENEVA, ILL.—WILLIAM CUMMINGS, Geneva, Ill., has been awarded contract for Appleton Addition sewer.

AURORA, ILL.—HORTON & MOSELEY, of Chicago, Ill., have been awarded contract for constructing the big drainage ditch in Rutland and Plato townships.

BATAVIA, ILL.—Bids will shortly be asked for constructing a complete system of vitrified pipe sewers, comprising about seven miles of pipe. (Advertised, Engineering News.)

BATAVIA, ILL.—A pipe sewer system is to be built, and will consist of 3,800 ft. of 6-in. pipe, 19,500 ft. of 10-in., 4,000 ft. of 12-in., 3,100 ft. of 15-in., 1,600 ft. of 18-in., 1,100 ft. of 20-in., and 4,000 ft. of 24-in. pipe; also catch-basins manholes and flush-tanks.

Plans and specifications are finished. The assessment roll has been confirmed and bids will be advertised for soon. C. A. Prout, Wheaton, Ill., is Engr. and has charge of the work.

RACINE, WIS.—The contract for constructing a new sewer in Herrick Ave. and Twelfth St. has been awarded to PETER B. JOHNSON at $17,300.

GREEN BAY, WIS.—S. P. OLANECZANK has the contract for sewer to be constructed in Eleventh St.

NORFOLK, NEB.—Bids are asked until May 16 for constructing a sewer system. Julius Huff is City Clk.

McCOOK, NEB.—We are officially informed that the contract for constructing 7,720 ft. of sewer has been awarded to F. S. DOBSON, of Lincoln, Neb., at $6,260.

ST. CHARLES, MO.—It is reported that $80,000 will be spent in constructing a new sewer system. Carr Edwards is City Engr.

FORT SMITH, ARK.—It is reported that this city has decided to build 60 miles of sewers at a cost of $1,600,000.

OKLAHOMA CITY, OKLA.—J. C. SEVERN of Guthrie, Okla., has contract for the Washington Ave. sewer.

BERKELEY, CAL.—$126,000 will be spent in constructing a sewer system. C. L. Huggins, City Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

OSWEGO, N. Y.—We are officially informed that the following bids were received April 24, by Lieut. Henry H. Hall, at Fort Ontario for crematory, etc.: Dixon Garbage Crematory Co., Toledo, Ohio, $4,000; the Morse Boudler Destructor Co., 39 Courtland St., New York, N. Y., $4,250. Lewis & Kitchen, 433 Wabash Ave., Chicago, Ill., made two bids on crematory building alone, $1,027 and $1,519.

WASHINGTON, D.C.—The following are the lowest bids received, on May 7, by the District Commissioners, for cleaning streets: cleaning unpaved streets, R. V. Rusk, 472 Louisiana Ave. N. W., $74 a day for 34 laborers and eleven horses and carts; machine cleaning, J. Fairfax Conrad, 22¾ cts. per 1,000 sq. yds.; cleaning alleys, Stutler & Ready, 400 Fifth St. N. W., 42, 40¾ and 40 cts. per 1,000 sq. yds.

INDIANAPOLIS, IND.—Bids are asked until May 18, by the Board of Public Works, for collection of garbage and operating a reduction plant.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NEWTON, N. H.—We are officially advised that the contract for a gravel road has been awarded to JAMES M. WATKINS, Amesbury, Mass.

QUINCY, MASS.—We are officially advised that HUGH NAWN CONTRACTING CO., Boston, Mass., was awarded the contract for grading, surfacing, etc., at Furnace Brook Parkway, at $27,714. Other bids were: Bruno, Salomone & Pettiti, Boston, $31,573; Ruggles & Fallon, Boston, $37,619; Svea Construction Co., Boston, $37,401; James J. Coughlin Construction Co., Boston, $36,757; William Shea & Son, West Quincy, $34,845; John Cashman, Quincy, $34,065; James Doherty, Roxbury, $30,336; Coleman Bros., Boston, $30,256; Rowe & Perini, South Farmington, $29,337; Fred S. & A. D. Gore Corporation, Boston, $29,220; T. H. Gill & Co., Boston, $27,894. John R. Rablein is Engr.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 15, by Louis F. Haffen, Pres. Boro. Bronx, for furnishing and delivering 75 bbls. best Rosendale cement; 30 bbls. best quality Portland cement; 15,000 paving blocks, Mack or Porter, or equal; 500 cu. yds. Cow Bay paving sand; 30 bbls. block filling for block pavement.

AUBURN, N. Y.—We are officially advised that on April 24 BRAYER BROS. were awarded contract for paving Owasco St., using Mack block with Auburn gray limestone for curbing, at $35,500. J. Walter Ackerman is City Engr.

MASSAPEQUA, N. Y.—The RANDEL & SMALL CEMENT CONSTRUCTION CO., of Richmond Hill (L. I.), N. Y., has been awarded the contract for 260 miles of sidewalks, at $680,000, by the Queens Land & Title Co., Times Bldg., New York City.

ALBANY, N. Y.—The Board of Contract and Supply has awarded paving contracts as follows: E. F. DILLON, improvement of Lake Ave., from Central to Clinton Ave., $10,073; M. F. DOLLARD, improvement of Mulberry St., from Broadway to Franklin St., $11,014.

PLATTSBURG, N. Y.—Contract for asphalt block paving, on Bridge St., has been awarded to the HASTINGS PAVEMENT CO., 25 Broad St., New York, N. Y. T. F. Mamix is Clk., Bd. of Pub. Wks.

NEWARK, N. J.—A contract has been awarded the STANDARD BITULITHIC COMPANY, 253 Broadway, New York, for 8,208 sq. yds. of bitulithic paving on Niagara St.

JERSEY CITY, N. J.—EDWARD M. MULLIN & CO., of Philadelphia, Pa., has been awarded a contract for paving 31st St. The contract for the improvement of 46th St. was awarded to J. J. COGAN, of Jersey City.

ROCKVILLE, MD.—Bids are asked until noon, May 15, by the Commissioners of Montgomery County for grading and macadamizing one mile of road. Robert G. Hilton is Clk.

NORFOLK, VA.—See under Sewers.

WHEELING, W. VA.—The Board of Commissioners of Ohio County will advertise for bids for ten **days** about June 1 for 23,000 sq. yds. brick **paving.** J. H. Beans is Pres. H. L. Arbenz, **County** Surv.

FAIRMONT, W. VA.—The City Council will advertise for bids about June 1 for 3,000 sq. yds. of vitrified brick paving. J. A. McEely is Chn.; J. M. Brickett is City Engr.

READERS' WANTS FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

MACHINERY, TOOLS, ETC.—Oakland, Cal.—The Abner Doble Co., 825 Mead Ave., Oakland, Cal., informs us that it desires catalogues from manufacturers of machinery and tools.

OIL DRILL.—Middletown, Conn.—We are in receipt of a letter from C. H. Blatchley, Middletown, Conn. in which he states that he is in the market for an oil drill suitable for a felspar quarry.

CATALOGUES, SAMPLES, ETC.—Washington, D. C.—Irving D. Porter, Arch., has opened offices at 1421 F St. N. W., Washington, D. C., and desires to receive manufacturers' catalogues and samples.

RAILWAY AND CONTRACTORS' EQUIPMENT, HOISTING ENGINES, CEMENT MACHINERY, ETC.—San Francisco, Cal.—Norman B. Livermore & Co., 604 Mission St., San Francisco, write us that they desire catalogues and prices of railway and contractors' equipment, hoisting engines and cement machinery.

HOISTING ENGINES.—Chicago, Ill.—We are in receipt of a letter from a gentleman who desires correspondence with reliable concerns manufacturing hoisting engines. He is Chief Engineer and General Agent of a company manufacturing special equipment. This equipment will necessitate the extensive use of hoisting engines. In the course of a year or so special designs will be submitted, but at present the main style will be 9 × 10 d. d. d. c. Address "Engineering Agent," 1636 Monadnock, Chicago, Ill.

BOILERS, BRIDGING, MALLEABLE CASTINGS, ENGINES, PAINT, GAS AND WATER PIPE, ROAD ROLLERS, PLOWS, ROCK DRILLS, ETC.—Columbia, S. A.—We are in receipt of a letter from Alford, Rockwood & Co., Apartado 514, Columbia, S. A., in which they state that they are in the market for boilers 10 to 25 HP., bridging, small malleable castings, engines 7 to 20 HP., iron and steel for coaches and carriages, paint, gas and water pipe, road rollers, plows, rock drills, sewer supplies, shovels, stand pipes, wagon axles, wind mills and wire rope.

CHARLESTON, S. C.—We are officially informed that the contract for filling in and grading at the Navy Yard has been awarded to J. O. WITSELL, of Charleston, S. C., at 45 cts. per cu. yd. The estimated quantity of work is 10,000 cu. yds.

NASHVILLE, TENN.—The Board of Public Works has awarded to J. L. COOPER contracts for grading and macadamizing Fifth Ave., at $6,500.

DANDRIDGE, TENN.—The contract for building 80 miles of pike road in Jefferson County has been awarded to SMITH BROS. & JENKINS and W. B. STOKELEY, of Oak Grove, at about $220,000.

ASHLAND, KY.—We are officially advised that bids received on April 9 for paving were as follows: John Bradley, Nashville, Tenn.: 70,000 sq. yds. of brick pavement on concrete foundation, $1.51 for streets on which are street railway tracks; $1.44 to $1.47 for streets on which are no street railway tracks; for 28,500 lin. ft. curb and gutter, 46 cts. The Southern Bitulithic Co., Nashville: 20,000 sq. yds. bitulithic pavement, at $2.00.

DAYTON, OHIO.—Robert E. Kline, City Engr., advises us that J. E. CONLEY & CO., Dayton, have been awarded contract for paving, for which bids were opened on May 1st. The contract is for 11,700 sq. yds. of brick paving on Western Ave., at $1.70 per sq. yd., including excavation and 5-in. concrete foundation; 5,770 lin. ft. combined cement curb and gutter at 55 cts. per lin. ft.; $1.68 per cu. yd. for Logan Block.

CAMBRIDGE, OHIO.—ADAMS BROTHERS, of Zanesville, Ohio, have a $70,000 contract for street paving and improvements, it is reported.

YOUNGSTOWN, OHIO.—The city will expend $44,000 for macadamizing the roadways around Wick Park this summer.

TIFFIN, OHIO.—The Township Trustees of Scipio will expend $12,000 constructing roads during the coming season. R. H. Porter is Chn.

MANSFIELD, OHIO.—Bids are asked until noon, May 19, by the Board of Public Service for grading and paving with brick and cement or flag sidewalks on 12 streets, and for sewers and culvert. (Advertised, Engineering News.)

SOUTH BEND, IND.—We are officially informed that bids received by the Board of Public Works, on April 28, for paving are as follows: C. H. Defrees, South Bend, laying brick on Cushing St. with gravel foundation, $8,792; Leland Ave., $5,641; Washington St., $13,050; Union Asphalt Construction Co., Indianapolis, Ind., for 9,726 sq. yds. asphalt, $14,881. Alonzo J. Hammond is City Engr.

RICHMOND, IND.—The Board of Public Works has ordered plans and specifications for the construction of cement sidewalks on West Third St.

CRAWFORDSVILLE, IND.—Bids are asked until May 14 for paving with vitrified brick Wabash Ave., from West City limits to Morrow bridge.

INDIANAPOLIS, IND.—The Board of Public Works is reported to be asking bids for the construction of brick and gravel roadways in Scioto.

LANSING, MICH.—W. W. HATCH & SON have been awarded the contract for paving Franklin Ave., Lansing, for $6,283.

ROSELAWN, ILL.—The City Council has awarded to the CHICAGO BITULITHIC CO. a contract for 28,980 yds. of bitulithic.

GREEN BAY, WIS.—The W. N. ANDREWS CO., Hamilton, Wis., has been awarded the contract for 40,000 sq. yds. of paving.

ST. PAUL, MINN.—Bids are asked until noon, June 5, by the Board of State Capitol Commissioners for stone and cement walks inside and outside the grounds of the new state capitol. Channing Seabury is Vice-Pres. Bd. Comrs.

MINNEAPOLIS, MINN.—The BARBER ASPHALT CO., 114 Liberty St., New York, N. Y., has been awarded the contract for resurfacing 113,000 sq. yds. of asphalt streets.

ST. PAUL, MINN.—Bids are asked until 10 a. m., May 21, by the Board of County Commissioners of Ramsey County for grading Edgerton St., in Ramsey County. Edw. S. Krahmer, County Audr.

FORT SMITH, ARK.—It is reported that about 85 miles of streets will be paved in this city. T. R. Bayley is City Engr.

SEATTLE, WASH.—The following ordinances have been passed, ordering improvements: Elliott Ave., by planking, $21,500; 10th Ave., etc., asphalt paving, $98,000; 17th Ave. Northeast, asphalt paving, $10,300; Pine St., etc, re-grading, $82,000; 26th Ave., etc., grading, $7,900. R. H. Thomson is City Engr.

TACOMA, WASH.—A contract was awarded to the BARBER ASPHALT CO., 114 Liberty St., New York, N. Y., for paving Jefferson Ave. from Pacific Ave. to North St., at $68,600.

PORTLAND, ORE.—The WARREN CONSTRUCTION CO. has been awarded a contract for 7,935 sq. yds. of bitulithic pavement.

BAKERSFIELD, CAL.—Bids will soon be asked for grading, curbing and oiling streets at a cost of $17,513.

SALT LAKE CITY, UTAH.—Bids are asked until 10 a. m., May 28, by Board of Public Works for grading, curbing and paving. F. J. Leonard is Chn. Bd. Pub. Wks. Louis C. Kelsey is City Engr. (Advertised, Engineering News.)

IDAHO FALLS, IDAHO.—We are officially informed that the contract for macadamizing streets has been awarded to HANLEY & RITCHIE, of Salt Lake City, Utah, at $18,849. Other bids received were as follows: McMullen H. & P. Co., $19,749; Wheelwright Construction Co., $24,534.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LAWRENCE, MASS.—The Merrimac Iron Foundry Co. has awarded a contract to KELLY BROS., Haverhill, Mass., for a foundry, pattern shop and office building. Foundry, 2-story, 100 × 200 ft., office building, 1-story, 25 × 80 ft., concrete and steel construction. Steel contract has been awarded to the EASTERN BRIDGE & STRUCTURAL CO., Worcester, Mass.

SOUTH FRAMINGHAM, MASS.—The J. W. BISHOP CO., 683 Atlantic Ave., Boston, Mass., has been awarded the contract for $90,000 factory at South Framingham, Mass., for Dennision Mfg. Co., of Boston, Mass.

PROVIDENCE, R. I.—A. E. Hill, Arch., 670 Banigan Bldg., Providence, has prepared plans for a factory for Young Bros., to cost $40,000; 200 × 134 ft., 1½ stories, brick, steel and concrete.

NEW HAVEN, CONN.—The Bigelow Co. has awarded a contract to the DAVID H. CLARK CO. for an addition, 230 × 50 ft., to its boiler plant, mill construction, costing $25,000. The BERLIN CONSTRUCTION CO., Berlin, Conn., was awarded the steel contract.

WESTVILLE, CONN.—Brown & Von Beren, Archs., New Haven, have prepared plans for a 3-story brick, granite and concrete factory for the Geometric Drill Co., 38 × 180 ft., costing $28,000.

SYRACUSE, N. Y.—The International Fiber Co., of Boston, Mass., has bought a 10-acre site, and will at once erect a $100,000 plant.

NEWARK, N. J.—The Lidgerwood Mfg. Co., foot of Dikman St., Brooklyn, N. Y., has begun the erection of a new 12-acre plant. The first building to be completed will be 120 × 780 ft.

JERSEY CITY, N. J.—Contract has been awarded to the AMERICAN CONCRETE STEEL CO., of Newark, N. J., for the erection of a new laundry building for the R. H. H. Steele Laundry, Oakland and Laidlaw Aves., Jersey City. Building will be 100 × 155, three stories high and constructed of reinforced concrete throughout. Cost, $60,000.

CLAIRTON, PA.—It is reported that a new mill will be erected by the United States Steel Corporation, at a cost of $2,000,000, as soon as the Wabash Railroad completes the construction of its new line to Clairton.

GLASSPORT, PA.—A $100,000 plant will be erected here, covering ten acres of ground, by the Pittsburg Steel Foundry Co. The plant will be used for making car bolsters exclusively.

McKEESPORT, PA.—The New York "Commercial" states that the National Tube Works will erect the largest single factory building in the world. The structure will be 1,500 ft. long, and more than 600 ft. wide, and about 45 ft. high. Four 15-ton electric traveling cranes will run the entire length of the building. It is estimated that the cost will be more than $2,000,000.

PHILADELPHIA, PA.—The F. A. HAVENS CO., Perry Bldg., Philadelphia, has been awarded the contract for erection of an 8-story brick warehouse at 225-227 Arch St. for Wm. Butler Co. Cost, $60,000.

Plans are being prepared for a $75,000 factory at 58th St. and Columbia Ave. for the H. H. Sheip Mfg. Co., 529 Columbia Ave., Philadelphia.

WM. STEELE & SONS, 16th and Arch Sts., Philadelphia, have been awarded the contract for a 5-story brick factory at Kensington.

BERWICK, PA.—Jacoby & Weishampel, Archs., Allentown, Pa., have plans ready for bids for a silk factory for E. W. Baer Co. Bids will soon be asked.

SCRANTON, PA.—Plans are being prepared for a brick and steel puddling and rolling mill for the Kemmerer Steel Co. Estimated cost, $150,000.

ALLENTOWN, PA.—Jacoby & Weishampel, Archs., Allentown, have invited bids for the erection of a 2-story brick machine shop. Equipment will be required. Chas. H. Nading & Bro. are owners.

NEW CASTLE, PA.—The Shenango Portland Cement Co., it is stated, has purchased the plant of the New Castle Portland Cement Co., and intends doubling the capacity of the plant.

WILMINGTON, DEL.—WM. B. AUSTIN, 1018 West St., it is reported has secured the contract for erecting a 6-story, 170 × 60 ft. building on Read St. for the plant of F. Blumenthal & Co.

RICHMOND, VA.—It is reported that the R. A. Patterson Tobacco Co. contemplates making improvements to their plant at a total cost of about $50,000, and is having plans prepared for a 5-story building to be erected south of building at 7th and Arch Sts., and for an additional two stories to the stemmery on 7th and Canal Sts.

CONCORD, N. C.—It is proposed by the Cannon Mfg. Co. to increase its capital from $200,000 to $1,000,000, and erect another mill somewhere in the State.

BROOKFORD, N. C.—The HOWARD & BULLOUGH AMERICAN MACHINE CO., Pawtucket, R. I., has been awarded the contract for spinning frames, twisters and other machinery by the Brookford Cotton Mills. $100,000 is the estimated cost.

GLASS, N. C.—The Cannon Mfg. Co., of Concord, has decided to increase its capital to $1,000,000. At an early date company will erect a plant, probably at this place, as 50 acres have been bought.

CLOVER, S. C.—An enlargement that will cost probably $75,000 will be undertaken this summer by the Clover Cotton Mfg. Co. It will consist of an addition of 5,000 spinning spindles, accompanied by cards, speeders, slubbers, pickers, etc.

LAGRANGE, GA.—We are officially informed that contract will be let on May 10th for the erection of a 2-story brick and timber cotton mill, 454 × 104 ft., 51 × 44 ft. and 54 × 51 ft., for the Elm City Cotton Mills Co. A. F. Walker, Atlanta, Ga., is Arch. Power plant, cross compound condensing engine, 700 HP., will be required.

FRANKLINTON, LA.—The Great Southern Lumber Co. will build a lumber manufacturing plant in Washington Parish, it is stated, at a place to be called Bogalusa. The Manufacturers' Record states that the mill plant and town will represent an investment of $1,500,000. Most of the contracts have been awarded, and all buildings are expected to be completed and the mill in operation by March 1, 1907. The AMERICAN BRIDGE CO., of Pittsburg, Pa., has contract for the erection of mill plant to embrace saw-mill, power plant, dry kilns, docks, planing mill, etc.; steel and concrete construction. STEVENSON & ADAMS, Pittsburg, Pa., have contract at $67,000 for building 40 houses for the managers and clerical force. BOWEN & THOMAS, Brunswick, Ga., have contract at $14,000 for building 200 operatives' houses. Contract for excavations and concrete foundations of mill buildings has been let to T. J. SHEA, of New Orleans, La., at about $100,000. The most improved machinery and equipment for sawing, manufacturing and finishing lumber will be installed, and the plant will have a daily capacity of 60,000 ft. of lumber. The general offices of the company are at 950 Ellicott Sq., Buffalo, N. Y. F. H. Goodyear is Pres.

HATTIESBURG, MISS.—It is reported that the Lignum Products Co., recently incorporated with $250,000 capital stock, has begun the erection of a plant transforming sawdust into alcohol.

HICKORY, MISS.—W. P. Cline and associates will organize company with authorized capital stock of $150,000 to build hosiery mill; machinery not purchased.

CINCINNATI, OHIO.—The Julian & Kokenge Shoe Co. will erect a $200,000 factory building. They will install power equipment. Architect not yet selected.

INDIANAPOLIS, IND.—The Indianapolis Briquetting Co. has been incorporated, capitalized at $75,000, to build a factory to manufacture articles from clay. Evan A. Bonham, O. M. Fowler and O. B. Shaffer are directors.

BATTLE CREEK, MICH.—The American Cereal Co., Railway Exchange Bldg., Chicago, Ill., has purchased the Flaka-Oata buildings, and will add to the property new buildings, to cost $75,000. The new factory will be modeled after the Shredded Wheat Biscuit buildings at Buffalo, N. Y. The building will be of brick, 175 × 90 ft., with two annexes 50 × 60 ft.

SAGINAW, MICH.—Pittsburg capitalists will establish a tube rolling mill, occupying the buildings of the Saginaw Sugar Co., which will be remodeled. Work will begin within two weeks. The company will be capitalized at $1,500,000. In addition to tubing, steel wheels will be manufactured.

KALAMAZOO, MICH.—The Kalamazoo Foundry Co. will erect a large new building at Eleanor and Church Sts., in addition to its plant.

KALAMAZOO, MICH. — The Kalamazoo Loose Leaf Binder Co. has been incorporated for $100,000 and will erect a 4-story factory building, 55 × 100 ft. J. J. Knight is Pres. H. F. Bushong, Vice-Pres. and Gen. Mgr.

FLINT, MICH.—C. A. MOSES, Chamber of Commerce Bldg., Chicago, Ill., has been awarded contracts for the erection of the new factory building and power-house for the Buick Motor Co.; also contract for the new factory building for the Weston-Mott Co., of Utica, N. Y.

CHICAGO, ILL.—L. G. Hallberg, Arch., 84 La Salle St., has awarded the mason, carpenter and concrete contract to J. WALTER JOHNSON, Security Bldg., for a factory to be built on Peoria St., for Gottmann & Kretchmer, confectioners, 158 West Jackson Boulevard. It will be 5-story, 60 × 115 ft., of reinforced concrete construction, costing $75,000.

KENOSHA, WIS.—The Safety Railway Switch Co. has been incorporated with a capital of $38,000, and a factory for the manufacture of railroad switches will be erected.

DEVILS LAKE, N. DAK.—The contract for extensive terminal improvements here for the Great Northern Railroad has been awarded to SCHMIDT BROTHERS & HILL, of Superior, Wis. Improvements include 25-stall roundhouse, boiler house, machine shop, etc. Cost, $160,000.

ST. LOUIS, MO.—Geo. W. Hellmuth, 721 Olive St., it is stated, is preparing plans for a building for the Sanitol Chemical Co., to be erected at Boyle and Laclede Aves. The interior arrangement, it is stated, contemplates a floor space of about 322,200 sq. ft. Probable total cost, $150,000.

MONTREAL, QUE.—The American Tobacco Co., it is stated, has had plans prepared by Findlay & McGregor, Montreal, for a tobacco factory which is to consist of five buildings constructed of Laprarie red brick with stone foundation, and include a main building four or five stories high, 180 × 124 ft., with a 60-ft. wing, a shipping building, 106 × 60 ft.; a warehouse, 85 × 50 ft.; a one-story power house and a stable and wagon house. It is reported that the total cost of the buildings will be about $250,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DITCHES.—St. Paul, Minn.—The State Drainage Board is reported to have appropriated $25,000 on April 25 for ditches in the northern part of the state.

DITCH.—Brainerd, Minn.—Bids are asked until May 19 by A. Mahlum, County Audr., for constructing Ditch No. 11, requiring 53,221 cu. yds. Estimated cost, $9,009.

DREDGING.—New York, N. Y.—Bids are asked until 2 p. m., May 15, by J. A. Bensel, Comr. Docks, for dredging about 150,000 cu. yds. on the East and Harlem Rivers.

LEVEES.—Meredosia, Ill.—About $127,000 will be spent for new levees and ditch work in the McGee Creek Levee and Drainage District. A. H. Bell, Bloomington, is Engr.

DREDGING.—Fort Totten, N. Y.—Bids are asked until 3 p. m., June 4, for dredging at Fort Totten. Capt. George H. McManus, Construct. Q. M. (Advertised, Engineering News.)

DITCH.—Storm Lake, Iowa.—The County Auditor states that it is proposed to construct the Brook Creek Drainage ditch, at a cost of $22,000. Engineer has not yet been appointed.

ABUTMENT.—Denver, Colo.—THE ATCHISON CONTRACTORS' SUPPLY CO. is reported to have secured the contract for the iron and steel abutment work in the walling of Cherry Creek, at $10,467.

STEEL BARS.—Augusta, Ga.—Bids are asked until May 25 for furnishing for year ending June 30, 1907, steel bars, plumbing and building materials, etc. For information apply to Commanding Officer.

DRAINAGE.—Osceola, Ark.—Bids are asked until May 31 for construction of about 12 miles of drainage canal in Mississippi County, Ark. J. T. Caston, Osceola, may be addressed. (Advertised, Engineering News.)

CANAL WORK.—Gunnison, Colo.—During the month of April the total excavation on the Gunnison tunnel in Colorado, which has a cross section of 10½ by 11½ ft., was 1,293 ft., making the total excavation to date 11,168 ft.

PONTOONS, ETC.—New York, N. Y.—Bids are asked until 3 p. m., May 17, by John F. Ahearn, Pres. Boro. Manhattan, for building pontoons and repairing and painting 14 free floating baths, located at the foot of 22d St., South Brooklyn.

MAIN CANAL.—Belle Fourche, S. Dak.—Specifications are on file at office of Engineering News, New York, for completion of the main canal, Belle Fourche Project. Bids are asked until May 29, as advertised in Engineering News.

STORAGE WORKS.—Portland, Ore.—Plans and specifications and bidding sheet for proposed Okanogan Project storage works are on file at office of Engineering News, New York. Bids are asked until June 27, as advertised in Engineering News.

DITCH.—Elgin, Ill.—HORTON & MOSELEY, of Monon, Ind., have secured the contract for constructing about ten miles of open ditch for about $18,000. Bids were opened April 20 by the Plato and Rutland Drainage District, H. D. Barnes, Secy.

STEEL TUG.—Duluth, Minn.—Bids were received on May 2 as follows for building a steel tug complete: Racine Boat Mfg. Co., Muskegon, Mich., $35,950; Great Lakes Engineering Works, Detroit, Mich., $59,500; Manitowoc Dry Dock Co., Manitowoc, Wis., $55,000. Major Charles L. Patter, U. S. Engrs.

DIKES.—New York, N. Y.—Bids are asked until noon, June 5, for driving piling and putting timber, lumber and iron in place for constructing and repairing dikes in Hudson River. Col. W. R. Livermore, Engrs., Army Bldg. (Advertised, Engineering News.)

ROCK REMOVAL.—New York, N. Y.—The only bid received April 25 by Col. W. R. Livtmore, Corps Engrs., U. S., for removing Pot Rock at Hell Gate, as advertised in Engineering News, was submitted by R. G. Packard Co., 130 Pearl St., for the lump sum of $27,450.

CANAL WORK.—Mitchell, Neb.—May 5 water was turned in the first 40 miles of the Interstate Canal, North Platte Project, Nebraska and Wyoming. This is to be one of the longest irrigation canals in the United States. When completed it will have a total length of 140 miles.

BULKHEAD.—Baltimore, Md.—The following are the bids opened on April 25 by the Board of Award for constructing a stone and timber bulkhead on Pratt st.: THE DEGNON CONSTRUCTION CO., $62,502 (awarded contract); Sanford & Brooks, $64,810; and McLain Construction Co., $63,039.

SUBWAYS.—Saratoga, N. Y.—We are officially advised that the ABBOT-GAMBLE CO., 32 Broadway, New York, has been awarded contract for the construction of subways at Elberon and Seabright, N. J., by the Consolidated Gas Company of New Jersey. Company has also been awarded contract for constructing a subway in Saratoga, N. Y., by the Hudson River Telephone Co.

DRAINAGE.—Breckenridge, Minn.—Martin Aalberg, of Henning, is reported to be preparing plans, etc., for construction of a drainage system in Wilken County, at a cost of $150,000. Part of the work will be let in June and the balance in July and August. R. P. Glover is County Audr.

REVETMENTS, ETC.—Chicago, Ill.—Bids were received as follows on May 2, for excavating the outlet from Lock 29, into Rock River; building crib revetments and backfilling around them: Page & Schnable, Security Bldg., Chicago, $10,434; Francis Donaldson, Moline, Ill., $15,604. Major C. S. Riche, Engrs.

RESERVOIR EMBANKMENT.—La Junta, Colo.—Bids are asked until 10 p. m., June 5, for construction of a reservoir embankment at Clear Creek, near Granite, Colo. George G. Anderson, Consult. Engr., Equitable Bldg., Denver. A. D. Best, Pres. Bd. Directors, Otero Irrigation Dist. (Advertised, Engineering News.)

STONE SCREENINGS.—New York, N. Y.—The contract for furnishing and delivering 3,000 cu. yds. broken stone of trap rock and 3,000 cu. yds. screenings of trap rock for parks, Borough of Bronx, for which bids were received April 26, has been awarded to CLINTON POINT STONE CO., at $1.79 per cu. yd.; total cost, $10,140.

TRAM TRACK AND CARS.—Philadelphia, Pa.—We are officially advised that bids were received April 26 for 12,000 ft. 21-in.-gage tram track and four cars by Cassius Gillette, Ch. Bureau Filtration, 712 City Hall, as advertised in Engineering News. Contract was awarded to ARTHUR KOPPEL CO., 63 Broad St., New York, at $4,800 for track and $128 for cars.

CANAL.—Portland, Ore.—Bids are asked until 2 p. m., June 29, for constructing about 75 miles of canal, extending from Umatilla River, near Echo, Ore, to the proposed Cold Springs reservoir, consisting of about 700,000 cu. yds. of earth excavation, about 6,000 cu. yds. rock excavation, about 2,300 cu. yds. of concrete and about 3,600 cu. yds. of riprap, divided into two schedules. E. A. Hitchcock, Secy. Dept. Interior. (Advertised, Engineering News.)

CANAL WORK.—Glendive, Mont.—Authority has been granted the Reclamation Service to negotiate, without the formality of advertising, with contractors in Montana for the construction of Division No. 3, Lower Yellowstone Project, N. Dak. and Mont., at figures not exceeding the lowest bid on Division No. 4, and to waive the requirements of a percentage payment to be held back. Owing to the exigency which exists this authority is granted, under the provisions of Sec. 3709, Revised Statutes, United States.

CANAL WORK.—Huntley, Mont.—The Secretary of the Interior suspended on May 7, contract of October 12, 1905, with CALLAHAN, KATZ, PHELAN & SHIRLEY, of Omaha, Neb., for the construction and completion of the work of Division No. 3, main canal, Huntley Project, Montana. The suspension is due to the failure on the part of the contractors to perform their contract in pursuance to paragraph 21, they having failed to commence the work required after due written notice. The Reclamation Service will submit a readvertisement calling for proposals for the construction and completion of this work. The surety on the bond of the contractors has been notified of this action on the part of the Department.

BARGE CANAL.—Albany, N. Y.—We are officially informed that bids were received as follows on May 8 by N. V. V. Franchat, Supt. of Public Works, for contract No. 8, Erie Canal, Section 2; and contract No. 11, Erie Canal, Section 1: Contract No. 8: Eastern Contract Co., Pittsburg, Pa., $1,433,817; MacArthur Bros. Co., 11 Pine St., New York City, $1,650,877; Buffalo Dredging Co., Buffalo, N. Y., $1,539,645; O'Brien & Hoolihan, Syracuse, N. Y., $1,544,669. This contract is for the construction of the following structures on the Mohawk River: Dam 4, lock 8, at Scotia, Sta. 1408 + 86; dam 5, lock 9, at Rotterdam, Sta. 1662 + 45; dam 6, lock 10, at Cranes Village, Sta. 1987 + 79; and incidental work. Length of canal included within the limits of these locks and their approaches, 0.7 mile.

For contract No. 11: Naughton Co., 299 Broadway, New York, $1,437,775; Fort Orange Construction Co., $1,359,475; Butler Bros. Construction Co., $1,539,340; Mallory & Co., Brooklyn, N. Y., $1,437,775; Ferguson Contracting Co., New York City, $1,531,075; Buffalo Dredging Co., Buffalo, $1,714,330; Mosier & Summers, Buffalo, $1,376,385; MacArthur Bros. Co., 11 Pine St., New York, $1,592,000. This contract is for excavating the canal and protecting its sides from Sta. 220 + 00 (0.4 of a mile northwest of the Delaware and Hudson R. R. crossing at Waterford) to Sta. 305 + 00 on the Mohawk River (about 1.6 miles below Crescent), including the construction of locks 4, 5 and 6 and appertaining structures, a highway, masonry for a guard gate, bridge abutments and other incidental details. Length of contract, 1.6 miles. Itemized bids will be given next week under Contract Prices.

Mosier & Summers, Buffalo, were low bidders on contract No. 10, at $1,126,718. Bids were received on May 9.

No bids were received for contract No. 12, for which bids were asked until May 9.

CONTRACT PRICES.

[Where (*) precedes item Prices the work was gineering News.]

*WATER-WORKS EXTE... SEWERS PAVING, CONCRETE A... tiesburg, Miss.—Tabulated ceived on April 10 for the ments are here given: ... Frederick Mienshall, Abb... U. S. Cast Iron Pipe & F... tanooga, Tenn.; (3) Ameri... Birmingham, Ala.; (4) A... Co., New Orleans, La.; (5) ... & Brass Works, Cincinnati ... banks Co., New Orleans ... Pump & Foundry Co., Ch... (8) E. J. O'BIERNE, Atlan... contract); (9) West Constru... nooga, Tenn.; (10) P. H. ... Ky.; (11) W. C. Porter, La... Brantley Granite Co., Lit... Crockett Paving Co., Birmin... T. J. Shea, New Orleans, L... Johnson Co., Vicksburg, M... Engineering Co., New Orlean... van & Long, Bessimer, Ala.

BIDS RECEIVED ON APRIL 10TH, 1906, FOR WATER-WORKS EXTENSION, HATTIESBURG, MISS.

	(1)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
For Removing:									
2665 ft. of 8 inch C. I. Pipe, per foot	$0.10	$0.10	$0.17	$0.23	$0.18	$0.10	$0.39	$0.30	$0.20
6169 ft. of 6 " C. I. W. Pipe, per foot	.09	.09	.10	.20	.15	.09	.37	.25	.18
2205 ft. of 4 " C. I. W. Pipe, per foot	.08	.08	.10	.15	.12	.08	.36	.20	.16
19 Hydrants, each	2.00	2.00	3.50	7.00	3.00	2.00	1.00	4.00	5.00
Total	$1,036	$1,036	$1,197	$2,310	$1,726	$1,036	$4,134	$2,858	$2,091
For Laying:									
2665 ft. of 12 inch C. I. W. Pipe, per foot	.30	.28	.25	.28	.30	.35	.60	.37	.32
110 ft. of 10 " C. I. W. Pipe, per foot	.24	.21	.21	.24	.23	.25	.56	.31	.25
5340 ft. of 8 " C. I. W. Pipe, per foot	.19	.18	.18	.19	.17	.18	.52	.24	.17
23729 ft. of 6 " C. I. W. Pipe, per foot	.15	.15¾	.14	.15	.15	.16	.45	.19	.16
10319 ft. of 4 " C. I. W. Pipe, per foot	.13	.13¾	.12	.13¾	.12¾	.14	.45	.15	.14
For replacing 19 Hydrants, each	2.00	1.00	4.00	5.00	3.00	2.00	1.50	8.00	3.00
Total	$7,437	$7,384	$6,859	$7,492	$7,271	$7,862	$21,279	$9,361	$7,777

For furnishing and deliver... 109.3 tons 12-in. c.-i. water ... (2) $29.20, (3) $28.80, (8) $29.20; ... 10-in. c.-i. water pipe, per ton, ... (3) $28.80, (8) $29.20; 58.16 ... water pipe, per ton, (2) $29.20, ... (8) $29.20; 292.37 tons 6-in. c.-i. ... per ton, (2) $29.20, (3) $28.80, ... 96.71 tons 4-in. c.-i. water ... (2) $30.20, (3) $28.80, (8) $30.20; ... specials, per ton, (2) $55.50, ... $56; 78 6-in. hydrants, each, (1) $... $21.25, (9) $21, (7) $22, (8) $21, (... drants, each, (4) $20.30, (5) $21, (6) $2... (7) $21.50, (8) $20; 3 12-in. valves, ... $27.40, (5) $30.50, (6) $31.50, (7) $27.50, (8) ... $31.56, (17) $33; 4 10-in. valves, each, (4) ... $21.40, (5) $22.25, (6) $22.75, (7) $27, (8) ... $22.75, (17) $24; 3 8-in. valves, each, (4) ... $13.90, (5) $15, (6) $14, (7) $16.50, (8) $14, ... (17) $15; 27 6-in. valves, each, (4) $8.45, (5) ... $9.25, (6) $7.75, (7) $9, (8) $7.75, (17) $8.25; ... 4-in. valves, each, (4) $5.20, (5) $6.10, (6) ... $5.25, (7) $5, (8) $5.25, (17) $5.50; 41 ... valve boxes, each, (4) $2.50, (5) $2.50, (6) ... $2.55, (7) $3, (8) $2.50, (17) $1.50; make of ... hydrants and valves, (4) Corey, (5) ... B., (6) P. & C., (7) H. P. & F. Co., (8) ... banks, (17) Crane; for furnishing material ... and constructing 7 special valve chambers ... each, (1) $36, (8) $18.50, (9) $28, (11) $22.75, ... (12) $25, (13) $15, (14) $41, (15) $30, (16) $60, ... (17) $20; total, (1) $612, (2) $20,261.20, (3) ... $17,896.20, (4) $2,323.05, (5) $2,526.35, (6) ... $2,334.75, (7) $2,260.45, (8) $22,963.08, (9) $476, ... (12) $425, (13) $255, (14) $697, (16) $240, (17) ... $1,054.

SEWERS.—Hattiesburg, Miss.—(1) Frederick Mensball, Abbeville, S. C.; (2) E. J. O'BIERNE, Atlanta, Ga. (awarded contract); (3) Sanders, Johnson & Co., Vicksburg, Miss.; (4) Brantley Granite Co., Lithonia, Ga.; (5) W. C. Porter, Laurel, Miss.; (6) West Construction Co., Chattanooga, Tenn.; (7) T. J. Shea, New Orleans, La.; (8) Crockett Paving Co., Birmingham, Ala.; (9) S. E. Irwin, Hamilton, Ohio; (10) Orleans Engineering Co., New Orleans, La.; (11) Sullivan & Long, Bessimer, Ala.:

BIDS RECEIVED ON APRIL 10 FOR SEWERS, HATTIESBURG, MISS.

SANITARY SEWERS.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2 Septic Tanks, complete, each	$980.00	$600.00	$850.00	$400.00	$800.00	$687.50	$900.00	$1,045.00	$650.00	$800.00	$870.00
If Concrete Cover is required add for each	100.00	100.00	150.00	56.00	220.00	115.80	33.00	100.00	75.00	100.00	170.00
1,688 ft. of 12" Sewer; average cut, 5' per ft.	.56	.66	.48	.60	.60	.44	1.00	.78	.80	.55	.55
250 ft. of 12" Sewer crossing creek, per ft.	2.10	2.50	2.00	2.15	3.50	3.50	2.00	2.00	2.10	1.00	2.50
1,438 ft. of 10" Sewer; average cut, 4.1' per ft.	.47	.47	.40	.38	.45	.37	.45	.76	.70	.44	.40
760 ft. of 8" Sewer; " " 4.5' "	.40	.35	.34	.32	.42	.31	.35	.63	.50	.33	.40
350 ft. of 8" Sewer; " " 6.5' "	.46	.38	.40	.32	.50	.38	.40	.63	.60	.44	.55
4 Flush Tanks, complete, each	65.00	55.00	60.00	75.00	70.00	59.50	80.00	50.00	70.00	80.00	65.00
25 Manholes, complete, each	45.00	26.50	35.00	30.00	36.00	39.50	42.50	32.00	40.00	35.00	32.50
Total	$5,956	$5,253	$5,398	$4,313	$5,559	$5,128	$6,489	$5,682	$6,052	$5,471	$4,550
Time Limit, days	90	120	90	200	90	120	90	120	100	150	90

STORM SEWERS.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
270 ft. of 18" Sewer; average cut, 4.6' per ft.	.90	1.10	.84	1.40	.82	.70	.95	.99	1.45	.80	1.60
250 ft. of 18" Sewer; " " 9' "	1.32	1.20	1.15	1.40	1.10	1.25	1.18	.99	2.05	1.10	1.80
1,443 ft. of 18" Sewer; " " 6.6' "	.96	1.13	1.00	1.40	.83	.79	1.00	.99	1.55	.84	1.20
450 ft. of 18" Sewer; " " 6.5' "	.96	1.13	1.00	1.40	.82	.78	1.00	.99	1.55	.84	1.20
850 ft. of 15" Sewer; " " 6.9' "	.77	.95	.92	.90	.70	.68	.73	.77	1.30	.75	1.10
320 ft. of 15" Sewer; " " 10.1' "	1.40	1.05	1.05	1.00	1.00	1.04	1.02	.77	2.00	1.05	2.30
700 ft. of 15" Sewer; " " 5' "	.72	.95	.70	.85	.65	.57	.70	.77	1.10	.69	1.00
715 ft. of 15" Sewer; " " 7' "	.90	.98	.82	.95	.71	.70	.75	.77	1.35	.73	1.60
650 ft. of 16" Sewer; " " 6.5' "	.75	.95	.75	.95	.68	.61	.75	.74	1.30	.70	.90
1,025 ft. of 12" Sewer; " " 6.5' "	.60	.68	.54	.60	.60	.48	.58	.74	1.00	.55	.80
628 ft. of 12" Sewer; " " 7.3' "	.81	.70	.60	.60	.64	.54	.58	.74	1.10	.60	.80
500 ft. of 12" Sewer; " " 7' "	.63	.69	.60	.60	.63	.54	.58	.74	1.05	.60	.80
200 ft. of 12" Sewer; " " 6.2' "	.57	.66	.60	.60	.60	.53	.58	.74	.90	.55	.80
2,000 ft. of 10" Sewer; " " 5' "	.45	.48	.54	.38	.40	.33	.45	.....	.65	.38	.45
49 Manholes, each	45.00	26.50	38.00	35.00	33.00	39.50	50.00	32.00	42.00	39.00	32.50
2 Bulkheads, "	35.00	20.00	45.00	17.00	70.00	35.00	35.00	20.00	20.00	27.00	25.00
106 Catch Basin Inlets	.....	18.50	16.00	15.00	21.00	28.00	26.00	17.00	20.00	18.50	20.00
Total	$12,505	$11,735	$11,167	$11,865	$10,617	$11,039	$12,445	$11,148	$16,102	$10,730	$13,282

STREET PAVING.—Hattiesburg, Miss.—(1) Ainsworth & McNutt, Jackson, Tenn.; (2) West Construction Co., Chattanooga, Tenn.; (3) Kelly Pa... Construction Co., Columbus, Miss.; (4) Southern Const. Co., Hattiesburg, Miss.; (5) John Bigler, Birmingham, Ala.; (1a) SOUTHERN PAVING & CONST. Co. (awarded contract for paving business streets), Chattanooga, Tenn.; (2a) T. J. Shea, New Orleans, La.; (3a) Barber Asphalt & Paving Co., New Orleans, La.; (4a) SOUTHERN BITULITHIC CO. (awarded contract for paving residence streets), Nashville, Tenn.; (5a) Memphis Asphalt Paving Co., Memphis, Tenn.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

FLAT CARS.—Panama.—Bids are asked until 10.30 a. m., May 19, by D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., for furnishing 1,000 wooden flat cars. The specifications (circular No. 308) call for cars 40 ft. long with 80,000 lbs. capacity.

STEEL WHARVES.—Manila, P. I.—The Bureau of Insular Affairs, War Department, has just received advices from Manila that the Philippine Government has awarded to the ATLANTIC, GULF & PACIFIC CO., ft. long and 70 ft. wide. The depth of water in which these wharves are to be built is about 30 ft. at mean low tide. Mean range of tide is 2.7 ft. and extreme range is 6 ft. The shore ends of the wharves will rest on concrete abutments. It is estimated that there will be 3,023,747 lbs. of structural steel in the work; seven cylinder piers, eight-pile; 53 cylinder piers, seven-pile; 94 cylinder piers, six-pile; 84 cylinder piers, five-pile; 12 cylinder piers, three-pile; four cylinder piers, eight-pile special; 328 fender piles, 60 ft. long; 67,573 ft. B. M. chocking; walling and backing; 112,365 sq. ft. net, reinforcing metal; 1,595 cu. yds. concrete deck; 12,400 sq. yds. wooden block pavement; 328 car-spring buffers; eight large and eight small cast-iron mooring posts, and 38 cast-iron mooring cleats. Department has not received names of other bidders.

BIDS RECEIVED ON APRIL 10 FOR STREET PAVING, HATTIESBURG, MISS.

	(1)	(2)	(3)	(4)	(5)	(1A)	(2A)	(3A)	(4A)	(5A)
9,805 cu. yds. of excavations, price per cu. yd.	.....	.....	.....	.....	.....	$0.39	.....	$0.41	$0.40	$0.38
22,067 lin. ft. of Granite Curb, set complete, per lin. ft.	.....	.....	.....	.....	.....	.65	$0.65	.69	.60	.63
2,000 lin. ft. Protection stone, 4" x 14" " "	.....	.....	.....	.....	.....	.40	.....	.49	.40	.47
2,267 lin. ft. Combined Curb & Gutter, set, " "	$0.61	$0.58½	$0.78	$0.68	$0.74½	.68	.65	.67	.60	.69
50,000 sq. ft. Reinf. Con. in 5" foundation, per sq. ft.	.....	.....	.....	.....	.....	.11	.....	.12	.10	.12
20,395 sq. yds. of 4" Concrete, per sq. yd	.....	.....	.....	.....	.....	.45	.....	.62	.45	.62
20,146 sq. yds. of 6" " "	.....	.....	.....	.....	.....	.65	.....	.88	.60	.83
40,541 sq. yds. of Asphalt, " "	.....	.....	.....	.....	.....	.....	.....	Napoont	.....	N.B. 98
								1.16		1.06
40,541 sq. yds. of Bitulithic, " "	.....	.....	.....	.....	.....	.....	.....	.....	1.65	1.23
40,541 sq. yds. of Brick or Block, per sq. yd	.....	.....	.....	.....	.....	1.58	.....	.....	.....	.10
Price added per yd. to Asphalt for 10-year guarantee,	.....	.....	.....	.....	.....	.....	.....	.07	.....	.....
Price added per yd. to Bitulithic for 10-year guarantee,	.....	.....	.....	.....	.....	.....	.....	.....	.15	.10
Price added per yd. to Brick for 10-year guarantee	.....	.....	.....	.....	.....	.15	.....	.....	.....	.....
Total amount of contract if Asphalt is accepted	.....	.....	.....	.....	.....	.....	.....	$106,425	.....	.....
								106,483		
Total amount of contract if Bitulithic is accepted	.....	.....	.....	.....	.....	.....	.....	.....	106,144	.....
Total amount of contract if Brick is accepted	.....	.....	.....	.....	.....	$105,218	.....	.....	.....	.....
						105,980				
1 Two-horse street-sweep. Mach., furnishing and deliv.	.....	.....	.....	.....	.....	$350	.....	$360	$350	$350
Time limit, days	.....	150	60	.....	90	.....	180	90	120	180	140

CONCRETE ABUTMENTS.—(1) Frederick Menshall, Abbeville, S. C.; (2) Southern Construction Co., Hattiesburg, Miss.; (3) P. H. Porter, Clinton, Ky.; (4) E. J. O'Bierne, Atlanta, Ga.; (5) JOHN BIGLEY (awarded contract), Birmingham, Ala.; (6) Field & Glassco, Hattiesburg, Miss.; (7) Crockett Paving Co., Birmingham, Ala.; (8) S. E. Irwin, Hamilton, Ohio; (9) T. J. Shea, New Orleans, La.; (10) W. C. Porter, Laurel, Miss.; (11) Orleans Engineering Co., New Orleans, La.; (12) Brantley Granite Co., Lithonia, Ga.; (13) West Construction Co., Chattanooga, Tenn.; (14) Ainsworth & McNutt, Jackson, Tenn.

BIDS RECEIVED ON APRIL 10 FOR CONCRETE ABUTMENTS, HATTIESBURG, MISS.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
700 cu. yds. of Cement set in place in 7 abutments, per cubic yard	$10.00	$8.49	$8.00	$12.50	$5.90	$6.50	$9.00	$9.00	$7.00	$8.75	$6.60	$7.40	$9.00	$7.65
300 cu. yds. Excavation, per cu. yd.	1.00	2.25	.40	.75	.35	.35	1.50	1.25	.50	.40	.60	.40	.60	.40
Total	$7,350	$6,168	$5,720	$8,975	$4,235	$4,935	$6,450	$6,675	$5,050	$5,520	$4,800	$5,300	$6,480	$5,475
Time limit	90	60	60	120	.....	75	90	60	60	90	75	90	90	80

CIVIL SERVICE EXAMINATIONS

ASSISTANT ENGINEER, CHAINMAN AND RODMAN, TOPOGRAPHICAL DRAFTSMAN.—New York, N. Y.—The Municipal Civil Service Commission, which was to have held competitive examinations for the following positions, Board of Water Supply: assistant engineer, topographical draftsman, chainman and rodman, on May 31, at 10 a. m., announces a postponement of date to June 2. The receipt of applications for assistant engineer and topographical draftsman will close on May 14, and for chainman and rodman on May 15. Frank A. Spencer, Secy., 280 Broadway. (Advertised in Engineering News on May 3.)

TOPOGRAPHIC DRAFTSMAN. — Panama Canal.—An examination will be held on June 6-7 by the U. S. Civil Service Commission to secure eligibles to fill vacancies as may occur in the position of topographic draftsman, Department of Construction and Engineering, on the Isthmus of Panama, at salaries of $100 and $125 a month, the usual entrance salary being $100 a month. As no eligibles were secured as the result of the examination held on April 4, 1906, qualified persons are urged to enter this examination. Age limit, 20 to 45 years. Application form 1312.

INDUSTRIAL NOTES.

L. F. SHOEMAKER & CO. have opened a contracting office at 45 Broadway, N. Y., with Lewis D. Rights as Contracting Mgr.

THE RISDON IRON & LOCOMOTIVE WORKS CO., of San Francisco, Cal., reports that its works were uninjured by the recent disaster, and at present it is working about 1,000 men.

THE LUNKENHEIMER CO., of Cincinnati, O., manufacturers of high-grade engineering specialties, has opened a well-equipped branch store at 66-68 Fulton St., New York City.

GEORGE P. NICHOLS & BROTHER, of Chicago, manufacturers of drawbridge machinery, transfer tables, electrical machinery for operating turntables, etc., have moved their offices from the Monadnock Block to 1090 Old Colony Building.

THE NORTHERN ENGINEERING WORKS, crane builders, Detroit, Mich., have recently installed in the new foundry of the Russel Wheel & Foundry Co., Detroit, one 20-ton and one 10-ton electric traveling crane, each of 50-ft. span.

THE BALTIMORE COOPERAGE CO. reports that it has the contract for a 50-ft. steel tower and 30,000-gallon tank to be erected for H. C. Brown, in Green Spring Valley, Md., two steel-roof structures and two 15,000-gallon tanks for the new buildings of the Crown Cork & Steel Co., Highlandtown, Md.

THE BAGLEY GRADER CO., Tacoma, Wash., manufacturing a grading-scraper which is operated in connection with a hoisting engine and used in railway construction, etc., has opened an office at 813 First National Bank Building, Chicago, in charge of Mr. F. C. Harper. About 40 machines are already in use for grading railways, logging roads, etc., they are very simple and inexpensive, and are reported to do the work at an extremely low cost.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 178.

IMPROVEMENTS.

Norfolk, Va.

Proposals will be opened at this office at 12 o'clock noon, on the 23d day of May, 1906, for certain improvements on Redgate Ave. in this city, which will consist approximately as follows:

120 feet of concrete culvert on pile foundation.
3,852 feet of sewer with house connections.
8 manholes, 3 flush tanks, 9 clean-out pipes.
2,000 cu. yds. excavation.
6,000 cu. yds. extra filling.

Specifications and forms of proposal may be had on application to the office of the City Engineer, and plans and profiles may be seen at the same place.

Bids must be made on the form of proposal attached to the specifications.

A certified check in the sum of $500 on some local bank must accompany each bid under the conditions expressed in the bid.

The right to reject any or all bids is reserved.

B. GRAY TUNSTALL,
19-1t Chairman Board S. S. D. Comrs.

ENGINES, GENERATORS, ETC.

Office of J. G. White & Company, Inc., 43-49 Exchange Place, New York, N. Y.

Sealed proposals (in duplicate) will be received and opened at the above office on Saturday, June 2, at 12.00 M. for furnishing all material, labor and other appliances, and erecting and putting in operation, in the State Capitol Building, boiler room thereof and connecting tunnel—2 direct connected engines and electric generators of 250 KW. rated output—1 ditto of 100 KW., 2 motor-generator sets of 20 KW. each, substituting and installing 10 motors of sizes ranging between 20 and 7½ HP. for old ones now in use, altering and improving boilers and piping, and other incidental work in remodelling the present lighting and power system of the State Capitol, as set forth on plans and specifications. The necessary plans showing the existing and new plant together with complete information and specifications containing same, will be furnished to responsible intending bidders, and a certified check in the sum of $50.00, payable to the order of the undersigned, must accompany requests for plans and specifications. Information as to the amount of check, surety bond or cash to be deposited with the bid, and the subsequent bond required for the performance of the contract, will be stated in the specifications. No bid will be considered, which does not contemplate the erection of the complete plant, as called for under the terms of the specifications. The right to reject any or all bids, to waive any informality in any bid or to readvertise is reserved.

J. G. WHITE & COMPANY, INC.,
19-4t 43-49 Exchange Place, New York City.

AIR COMPRESSOR.

Galesburg, Ill.

Sealed bids will be received by L. F. Brown, City Clerk of the City of Galesburg, Ill., until five o'clock p. m., Monday, June 4th, A. D. 1906, for furnishing an air compressor of a guaranteed capacity sufficient to furnish air to pump and to deliver to the reservoir one (1) million gallons of water from the deep wells at the City Water-Works in said city in twenty-four (24) hours, as a minimum, and one and one-half (1½) million gallons in twenty-four (24) hours, as a maximum. Said proposal or bid to include the entire cost of furnishing, installing and connecting up the compressor complete, ready for use; said compressor to be tested by the City of Galesburg, Illinois, for a period of six (6) months after being installed and before acceptance of same.

Proposals must be made out on blank forms, which may be obtained at the office of F. M. Connolly, City Engineer.

The City reserves the right to reject any or all bids.

L. F. BROWN,
19-4t City Clerk.

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., April 27, 1906.—Sealed proposals will be received at this office until 12 o'clock noon, Thursday, May 17th, 1906, for constructing a public convenience station in Reservation 33, and for the plumbing work therein, separate proposals for each. Forms, specifications and all necessary information may be obtained at this office. HENRY B. F. MACFARLAND, HENRY L. WEST, CHESTER HARDING, (Acting) Commissioners, D. C. 18-2t

PROPOSALS FOR MISCELLANEOUS SUPPLIES, Office Isthmian Canal Commission, Washington, D. C., April 30, 1906.—Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., May 21, 1906, at which time they will be opened in public, for furnishing lathes, milling machine, chuck table, feed-water heaters, excavating apparatus for cesspools, pumping apparatus, steam pumps, saw blades, grease cups, pulleys, cleats, lanterns, staples, belt hooks, jackscrews, nails, measuring tapes, padlocks, door and blind hardware, crucibles, hammers, hooks and eyes, ice and blacksmith's tongs, box scrapers, carpenter's tools, twine, sewing palms, steam gages, and cocks, oil cans, sprinkling pots, stencils, mops, harness snaps, car movers, hoisting slings, post drills, gluepots, gardener's tools, rowboat, oars and oarlocks, speed indicators, leather, desks and chairs, piston packing, air brake and air hose, registers, fillet, machine knives, rubber wheelbands, white-pine lumber, locomotive sanders, glass cutters, rivets, track bolts, twist drills, pipe tools, sanitary fixtures, iron pipe and pipe fittings, valves, water-color paints, etc. Blanks and full information (Circular No. 307) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; Custom-House, New Orleans, La.; 36 New Montgomery Street, San Francisco, Cal.; and 410 Chamber of Commerce Building, Tacoma, Wash.; also from Chief Quartermaster, Department of the Lakes, Chicago; Depot Quartermaster, St. Louis; Depot Quartermaster, Jeffersonville, Ind.; Chief Quartermaster, Department of the Gulf, Atlanta, Ga.; and the Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 18-2t

DEPARTMENT OF THE INTERIOR, Washington, D. C., May 3, 1906.—Sealed proposals will be received at the office of the Supervising Engineer, United States Reclamation Service, Portland, Oregon, until 2 o'clock p. m., June 29, 1906, for the construction of about 25 miles of canal, extending from the Umatilla River, near Echo, Oregon, to the proposed Cold Springs Reservoir, consisting of the following work: About 700,000 cubic yards of earth excavation, about 6,000 cubic yards of rock excavation, about 2,300 cubic yards of concrete and about 3,600 cubic yards of riprap, divided into two schedules. Particulars may be obtained at the offices of the United States Reclamation Service at Washington, D. C., and Portland, Oregon. E. A. HITCHCOCK, Secretary. 19-5t

PROPOSALS FOR DREDGING.—Office of the Constructing Quartermaster, Fort Totten, Willets Point, N. Y., May 4, 1906.—Sealed proposals for dredging at this post will be received at this office until 3 p. m., June 4, 1906, and then opened. Necessary information furnished on application. Envelopes containing proposals should be marked "Proposals for Dredging," and addressed Capt. GEO. H. McMANUS, Constructing Quartermaster. 19-4t

PUMPING MACHINERY.

South Bethlehem, Pa.

Sealed bids will be received at the office of Chapin & Knowles, Consulting Engineers, 1017 Frick Bldg., Pittsburgh, Pa., up to 12 o'clock noon, Eastern Standard time, of Wednesday, the 16th day of May, 1906, for the furnishing and erecting a seven million-gallon easy daily capacity steam pumping engine, in the engine room of the Bethlehem City Water Company at South Bethlehem, Pa., in accordance with the general specifications, copies of which may be had by bidders upon application.

Such bids, as outlined in specifications, may be on either vertical or horizontal type of engine, and may be direct-acting or crank flywheel.

All bids shall be made upon blank forms furnished with the specifications or upon exact copies thereof, and shall be sealed and mailed or delivered at 1017 Frick Bldg., Pittsburgh, Pa., on or before the date and hour above named.

The Bethlehem City Water Co. reserve the right to reject any or all bids or to accept such bid as in its opinion is to its best interest.

THE BETHLEHEM CITY WATER CO.,
M. P. QUINN, Pres.
CHAPIN & KNOWLES,
Consulting Engineers,
1017 Frick Bldg., Pittsburgh, Pa. 19-1t

DRILLING DEEP WELL.

Galesburg, Ill.

Sealed bids will be received by L. F. Brown, City Clerk of the City of Galesburg, Illinois, until five o'clock p. m., Monday, June 4, 1906, for drilling a deep well eight (8) inches in diameter.

Proposals must be made out on blank forms, which may be obtained at the office of F. M. Connolly, City Engineer.

The City reserves the right to reject any or all bids.

L. F. BROWN,
19-4t City Clerk.

"WANT"

Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cts. a word for "Situations Open" and "Miscellaneous Wants." Read them weekly as they will help you.

REBUILDING TURNPIKE ROAD.

County of Cape May, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of Cape May County, New Jersey, until twelve o'clock noon of the day of its meeting on the twenty-first day of May, nineteen hundred and six (1906), at Cape May Court House, New Jersey, for the rebuilding of the State and County Road from Ocean View to Sea Isle City, New Jersey, a distance of two and six-tenths (2.6) miles and known as the Sea Isle City Turnpike, according to plans and specifications which may be seen after the twenty-fifth day of April, 1906, at the office of Hon. E. C. Hutchinson, State Commissioner of Public Roads, Trenton, N. J.; at the office of R. Fendall Smith, Engineer, Ocean City, N. J.; at the residence of A. B. Smith, Director, Beesley's Point, N. J.; J. P. Fox, Ocean City, N. J.; C. P. Vanaman, Dias Creek, N. J.; J. D. Ludlam, South Dennis, N. J., and at the office of Dr. Westley R. Wales, Cape May City, N. J.

On the day and date first mentioned all proposals received for said work will be immediately opened and publicly read by the Board of Chosen Freeholders of Cape May County, New Jersey, the said Board reserving the right to reject any or all bids.

Each bid must be accompanied by a certified check to the amount of One Thousand Dollars, drawn payable to the order of Anthony B. Smith, Director of the Board of Chosen Freeholders of Cape May County, New Jersey. The successful bidder will be required to execute, within ten days after contract has been awarded to him, a bond in such sum and with such security as shall be approved by the Board of Chosen Freeholders; said bond shall be in a sum not less than the estimated cost of the road when completed.

Each bidder will be required to submit to the State Commissioner of Public Roads, Hon. E. C. Hutchinson, Trenton, N. J., and to the Engineer, prior to the time of submitting bid for construction, a sample of the gravel he proposes to use in the construction of said roadway.

All proposals shall be marked "Proposals for Sea Isle City Turnpike."

ANTHONY B. SMITH,
Director.

R. FENDALL SMITH,
Engineer. 18-3t

Specifications are on file at office of Engineering News, New York.

FURNISHING CAST IRON PIPE & SPECIAL CASTINGS.

Office of Sewerage and Water Board,
602 Carondelet Street,
New Orleans La., March 8th, 1906.

Sealed proposals will be received until 12 o'clock, noon, Tuesday, May 15th, 1906, for the furnishing of 100 miles of cast-iron water pipe and special castings, mainly from 4 to 24 inches in diameter, aggregating about 10,000 tons.

Quantities stated are approximate only.

This work will be divided into three contracts; and a certified check on a New Orleans bank for $1,500 must be deposited with the Secretary of the Sewerage and Water Board, not later than 11 A. M., May 15th, 1906, by each bidder and one for each contract bid upon.

A surety company bond for an amount equal to 25 per cent. of the gross amount of each contract will be required of the successful bidder in each case.

Specifications, general plans and blank forms of proposals may be obtained at the office of the Board.

The right is reserved to reject all bids.

F. S. SHIELDS,
Secretary.

GEO. G. EARL,
General Superintendent. 10-10t

Plans and specifications for this work are on file at offices of Engineering News, New York Chicago and Washington.

DEPARTMENT OF THE INTERIOR, Washington, D. C., Office of the Superintendent of the U. S. Capitol Building and Grounds, April 30, 1906.—Sealed proposals, in duplicate, will be received and opened at the above office at two o'clock p. m., on Tuesday, May 15th, 1906, for fireproof floor construction for the several floors of the Office Building, House of Representatives. Plans and specifications can be had on application to the above office. A certified check in the sum of $25 will be required from the intending bidder as a guarantee for the return of plans and specifications. The specifications will state the amount of the certified check or approved surety bond in lieu thereof, which must accompany each bid. The right is reserved to reject any or all bids, or alternates, or to waive any informality or technicality in any bid. Elliott Woods, Superintendent U. S. Capitol Building and Grounds. Approved E. A. HITCHCOCK, Secretary. 19-1t

SEWERS AND DRAINS.

Pensacola, Fla.

Sealed proposals for the construction of a system of storm-water drains and a system of sanitary sewers for the City of Pensacola, Florida, will be received by the Board of Bond Trustees, at the City Hall, up to 12 o'clock noon of the first day of June, A. D. 1906. Proposals to be addressed to L. Hilton Green, Chairman of the Board of Bond Trustees, endorsed "Proposals for Constructing Drainage and Sewerage Systems."

The work to be done consists of approximately 25,000 lineal feet of storm-water drains from 66 ins. to 10 ins. in diameter, which will comprise Section 1. Section 2 will consist of approximately 42 miles of terra cotta and cast iron pipe sewers from 24" to 6" in diameter. Proposals for Section 1 must be accompanied by a certified check for the sum of two thousand dollars ($2,000), and proposals for Section 2 must be accompanied by a certified check in the sum of three thousand dollars ($3,000). Each check so deposited to be drawn upon a bank doing business in the City of Pensacola, Florida, and made payable to the Board of Bond Trustees.

Specifications and blank forms of proposal can be obtained of either L. Hilton Green, at Pensacola, or of the Consulting Engineer, at Wilmington, Delaware; and full sets of plans can be obtained at the latter's office upon the deposit of ten dollars ($10), which deposit will be returned upon the return of the plans in good condition.

The right to reject any and all bids is reserved.

L. HILTON GREEN,
Chairman Board of Bond Trustees.
T. CHALKLEY HATTON,
Consulting Engineer. 18-4t

STEEL AND CONCRETE BRIDGE.

Sealed proposals will be received by John Thomas, Supervisor, No. 66 Main St., Batavia, N. Y., up to 10 o'clock A. M. of Saturday, May 19, 1906, for building the steel superstructure and concrete flooring of a highway bridge over Tonawanda Creek, near Batavia, N. Y., in accordance with plans, specifications and form of contract on exhibition at the Office of John Thomas, Batavia, N. Y.; Stowell & Cunningham, No. 71 State St., Albany, N. Y., and the Engineering News, New York City.

Each proposal must be accompanied by a certified check or New York draft in the sum of five hundred dollars, payable to John Thomas, Supervisor, enclosed in a sealed envelope endorsed on the outside "Proposal for Bridge" and delivered to John Thomas in person or by mail before the time set for receiving bids as above.

Proposals are invited only from parties owning or operating bridge building plants. 19-1t

GRADING, BRICK PAVING, CEMENT OR FLAG WALKS.

Mansfield, O.

Sealed proposals will be received at the office of the Board of Public Service, Mansfield, O., until 12 o'clock noon, May 19th, 1906, and publicly opened and read immediately thereafter, for labor and material required in the following improvements:

	Grading, cu. yds.	Brick paving, sq. yds.	Cement or flag walks, sq. yds.	Cert. check.
W. Fourth St.	4,300	*6,000	1,770	$250.00
Wood St.	1,800	*4,900	1,700	200.00
Harker St.	6,100	4,500	2,470	200.00
Penn Ave.	1,800	*4,020	1,300	200.00
Stewart Ave.	2,500	1,700	900	150.00
N. Diamond St.	300	900	40	50.00
Wise Ave.	250	700	....	50.00
Plum Alley	2,000	3,020	....	100.00
Boughton Ave.	800	1,300	....	100.00
Cedar St.	2,700	....	604	50.00
Blanch St.	400	....	1,170	50.00
Orange St.	400	....	630	50.00
Chester Ave.	1,600 ft.	18"-20" and 24" S. P.	4 M. H.	50.00
High and Lafayette Sts.	1,340 ft.	8" S. P.	7 M. H.	50.00
Prospect St.	1,270 ft.	8" S. P.	2 M. H.	50.00
E. Third St. Culvert	350 lin. ft. of 15 ft. × 6 ft. concrete culvert.			

*Bids received on sheet asphalt and brick.

Proposals will also be received on 7,000 barrels of PORTLAND CEMENT.

Plans and specifications for this work are on file at the office of the Board of Public Service (Eng.'s Div.)

For proposal sheets of information, address Board of Public Service (Engr. Div.), Mansfield, O.

The right is reserved to reject any or all bids. 19-1t

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2. The bevel or slope can be read directly from the angle expressed in degrees, minutes, etc., or *vice-versa*.
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220 Broadway, New York

WATER TOWER.

Grand [illegible], Mich.

Sealed proposals will be [illegible] office of the Board until [illegible] p. m., for constructing a[illegible] reinforced concrete tank [illegible] and 60 feet deep, supported [illegible] concrete substructure and [illegible] forced concrete casing-to[illegible] the plans and specification[illegible] office of the City Engineer.

The Board reserves the r[illegible] and all proposals, and re[illegible] award the contract for [illegible] (c) separately, and as it d[illegible] interests of the City of Gr[illegible]

Each bidder shall deposit [illegible] a certified check or certi[illegible] payable to the order of S[illegible] President, in the sum of [illegible] proposal, to be forfeited to th[illegible] Rapids in case he shall fa[illegible] contract, in accordance wit[illegible] should his proposal be accept[illegible] of Public Works.

All proposals must be made [illegible] that will be furnished upon a[illegible] office of the City Engineer. [illegible] Board.

SAMUEL G. [illegible]UDY,
[illegible]

SAMUEL A. FRESHNEY,
Secretary & General Ma[illegible]
L. W. ANDERSON,
City Engineer. 19-2

GRADING, CURBING AND PAVING.

Salt Lake City, Utah.

Sealed proposals will be received at the office until 10 o'clock a. m., Monday, May 28th, 1906, for the work of grading, curbing and paving Second South Street, from Third East Street to Tenth East Street.

The approximate quantities of work to be done are as follows:

Grading ..... 20,000 cubic yards.
Curbing ..... 11,500 linear feet.
Asphalt pavement ..... 38,000 square yards.

Instructions to bidders, together with specifications and forms for contract and bond can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.

F. J. LEONARD,
Chairman.

LOUIS C. KELSEY,
City Engineer. 19-2

Situations Open

THE UNIT CONCRETE STEEL FRAME CO., of Philadelphia, desires the services of competent engineers who are thoroughly experienced in the design of reinforced concrete structures. Apply by letter to "G. B. 19," Engineering News, stating your age, schooling, positions you have held, importance thereof and salary desired, also how soon you could report for employment. 19-2t

WANTED.—Experienced foreman on concrete form work; must be capable of supervising the work of twenty men; sober and a hustler. Season's work to the right man. State wages required and how soon you can report. JUNIATA HYDRO-ELECTRIC CO., Huntingdon, Pa. 19-1t

WANTED.—Experienced draftsmen for detailing reinforced concrete buildings; state age, references, when available and salary expected. Address "H. B. 19," Engineering News, New York. 19-1t

WANTED.—Mechanical draftsmen who could adapt themselves to railway special track work; permanent position; state age, experience and salary expected. Address all communications to WM. WHARTON, JR., & CO., INC., Station D, Philadelphia, Pa. 19-1t

WANTED.—Foreman on reinforced concrete. None but experienced men need apply. State experience and reference. Address "J. P. 19," Engineering News, New York. 19-1t

WANTED.—Civil engineers familiar with trigometrical and logarithmic computations; those familiar with railway special track work preferred; permanent position; state age, experience and salary expected. Address all communications to WM. WHARTON, JR., & CO., INC., Station D, Philadelphia, Pa. 19-1t